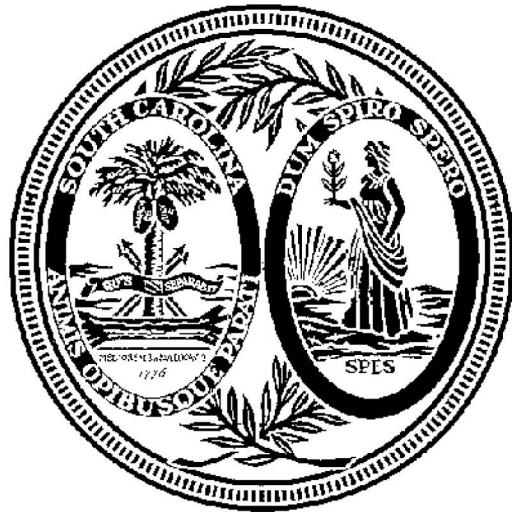


# Greenville County Base Labor Market Analysis



South Carolina  
Department of  
Commerce



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## EXECUTIVE SUMMARY

### Population

*Greenville County has a rapidly growing population.*

- Over the last decade, population growth exceeded that of the state by 4% and is expected to continue.

*In-migrants from out-of-state increase high-skilled labor pool.*

- Migration into Greenville has increased 16% between 2002 and 2006, with over 60% of migrants coming from out of state. These out-of-state in-migrants possess substantially higher levels of educational attainment at the bachelor and graduate degree levels than migrants from in-state.

*Greenville County attracts workers from a wide area beyond its borders.*

- Only 54% of workers live in Greenville County, with significant numbers living outside the Upstate area.

### Income

*Per Capita Income growth has lagged both the US and South Carolina.*

- While Greenville County's per capita income was on par with the national average in 2000, it has since lagged. Although still higher than the state average, its growth trajectory moves it closer to the state average each year.
- Greenville County wages are generally above the state average.

### Education

*Greenville County has a high percentage of college graduates AND high school dropouts.*

- Greenville County has a higher percentage of Bachelor's degree holders than the state and nation. Additionally, it is higher than the nation and only slightly lower than the state in the percentage of high school non-completers.

*Degrees by area post-secondary institutions have increased.*

- The number of degrees awarded by area higher-education institutions has increased, most notably in health-related fields, business management and marketing, computer and information sciences, mechanic and repair technologies, and education.

### Occupations

*Current employment in the following occupational groups is higher than state employment:*

- Sales, Office & Administrative Support, Production, and Transportation & Material Moving

*Employment in the following occupational groups is projected to grow faster than state employment:*

- Healthcare Support, Food Preparation & Serving-related, and Farming & Forestry

*Overall, future jobs are expected to require higher levels of education and training.*

- Higher skill occupations expected to experience high growth, in particular, include Managers, Engineering Occupations, Computer Professionals, Science-Related Technicians, and Healthcare Professionals.

### Industry

*Sectors rated as having the highest competitive potential in Greenville County are as follows.*

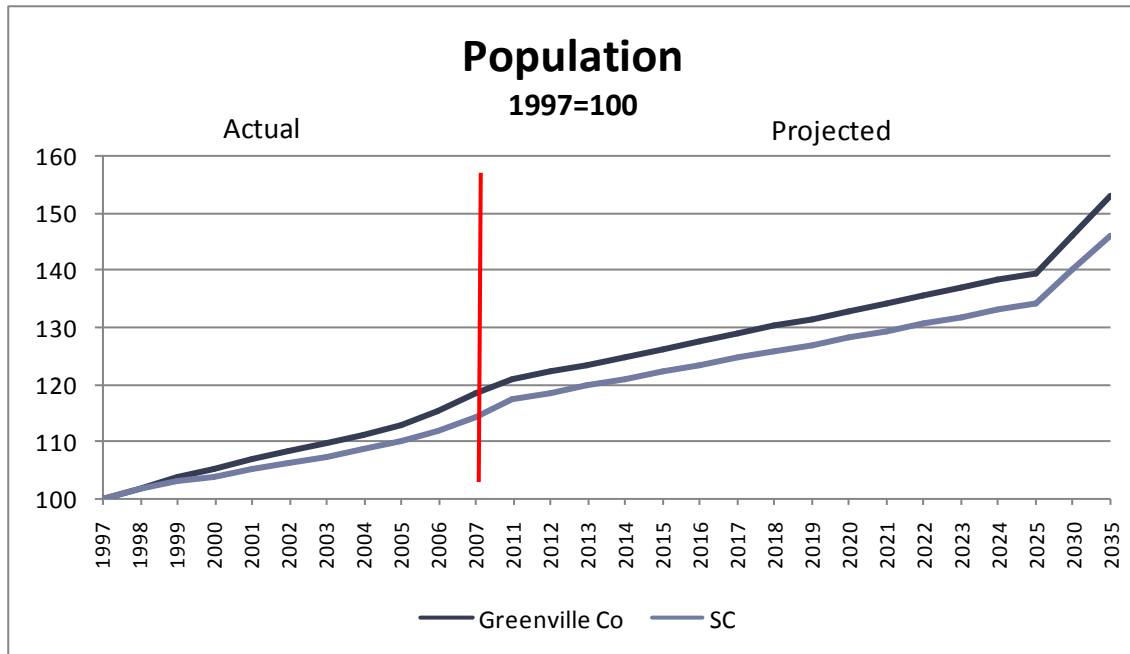
- Electrical Equipment and Appliance Manufacturing, Merchant Wholesalers (durable goods), Support Activities for Transportation, and Telecommunications



## POPULATION

### Growth

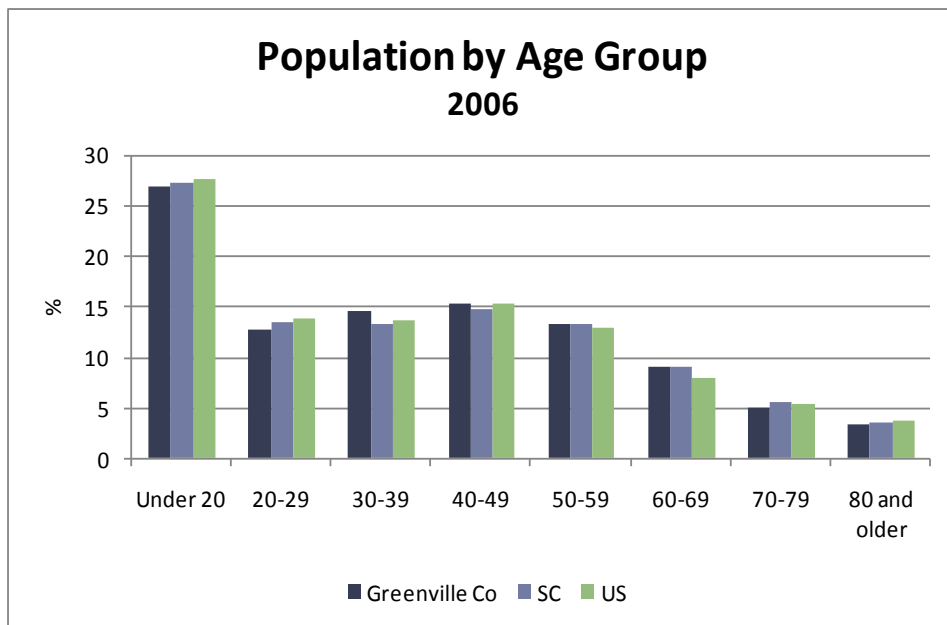
Greenville County's 2007 population was 428,243. The county population has grown by more than 18% since 1997, 4% more than South Carolina's current population growth.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

### Age

Greenville County has a higher percentage of its population in the prime working age groups than South Carolina or the nation.



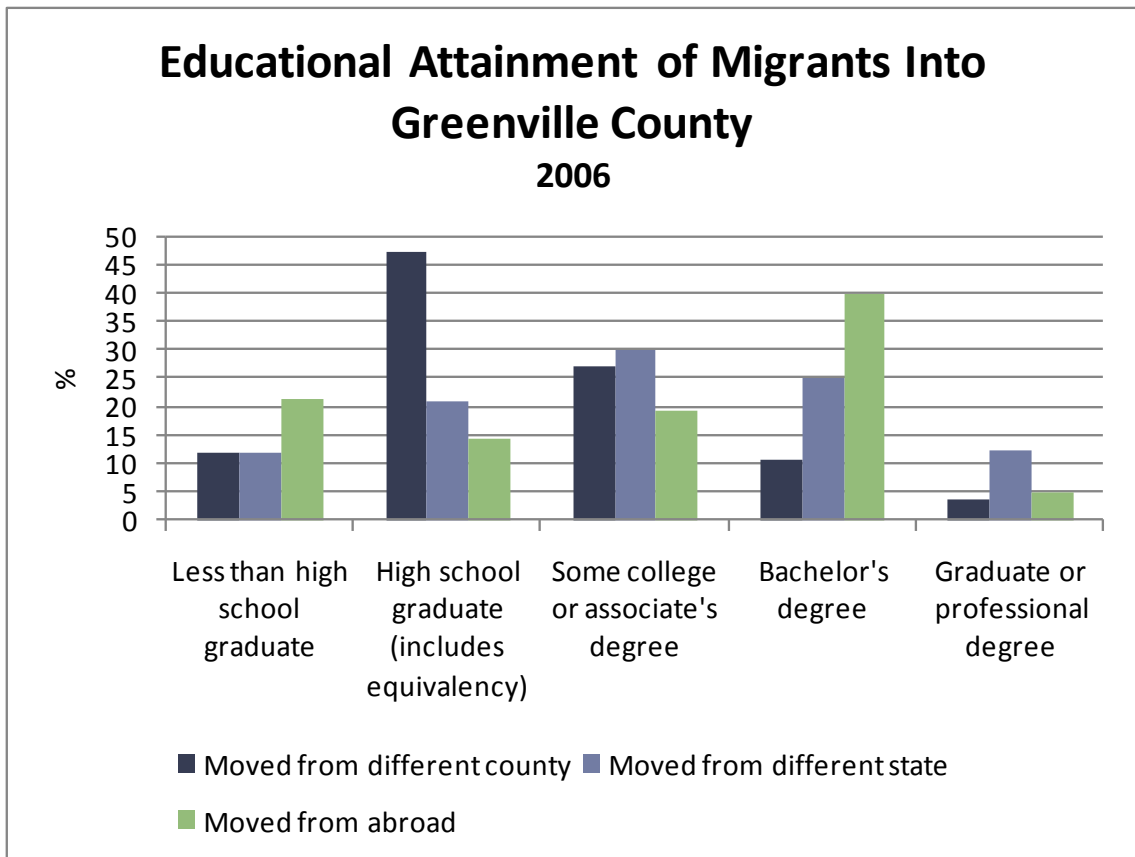
Source: U.S. Census Bureau, American Community Survey.

## Migration

From 2002 to 2006 (latest data available), Greenville County had a 16% increase in the number of people moving into the county, with almost 30,000 people coming into the county in 2006. Most of those people came to Greenville County from another state.

From 2002 to 2006, South Carolina experienced a 43% increase in the number of people moving from a different county, state, or country.

People age 25 and over moving into Greenville County from outside the state tend to be more educated than those coming from South Carolina. However, a significant number of those coming from foreign countries have not completed high school.

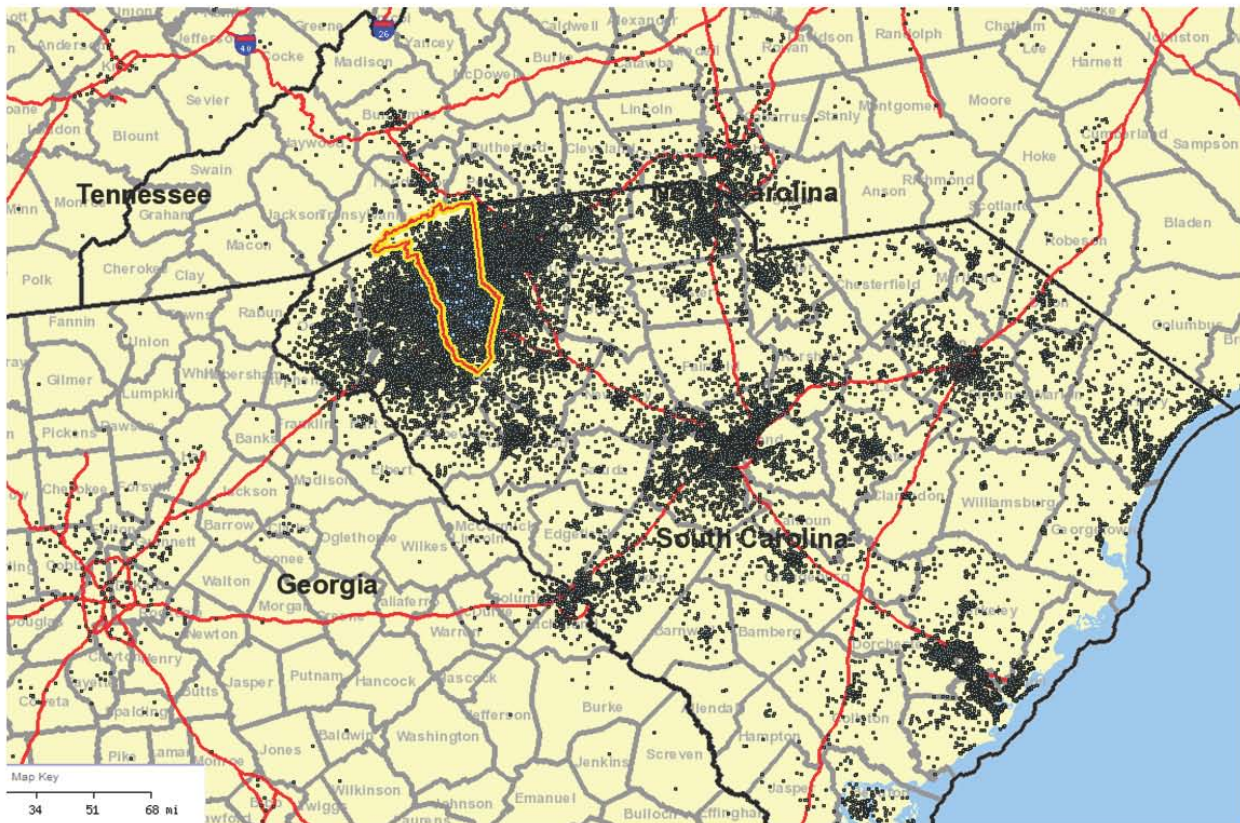


Source: U.S. Census Bureau, American Community Survey



## GREENVILLE COUNTY LABORSHED

The map below shows where Greenville County workers come from (in 2004, latest available data). As can be seen, Greenville County draws workers from a wide area.



Source: U.S. Census Bureau, Local Employment Dynamics

### Characteristics of Workers—2004

#### Age of Workers:

Age 31 to 54	58.3%
Age 30 & Younger	26.1%
Age 55 & Older	15.6%

#### Earnings of Workers:

\$1,200 or less per month	28.1%
\$1,201 to \$3,400 per month	44.3%
More than \$3,400 per month	27.6%

#### States Where Workers Live:

South Carolina	95.2%
North Carolina	1.3%
Georgia	0.6%
All other locations	2.9%

### **Counties Where Workers Live:**

Greenville	54.2%
Spartanburg	8.0%
Anderson	6.9%
Pickens	6.0%
Laurens	2.5%
Richland	2.5%
Lexington	1.9%
Charleston	1.8%
Oconee	1.1%
York	1.1%
All other locations	14.2%

### **Cities Where Workers Live:**

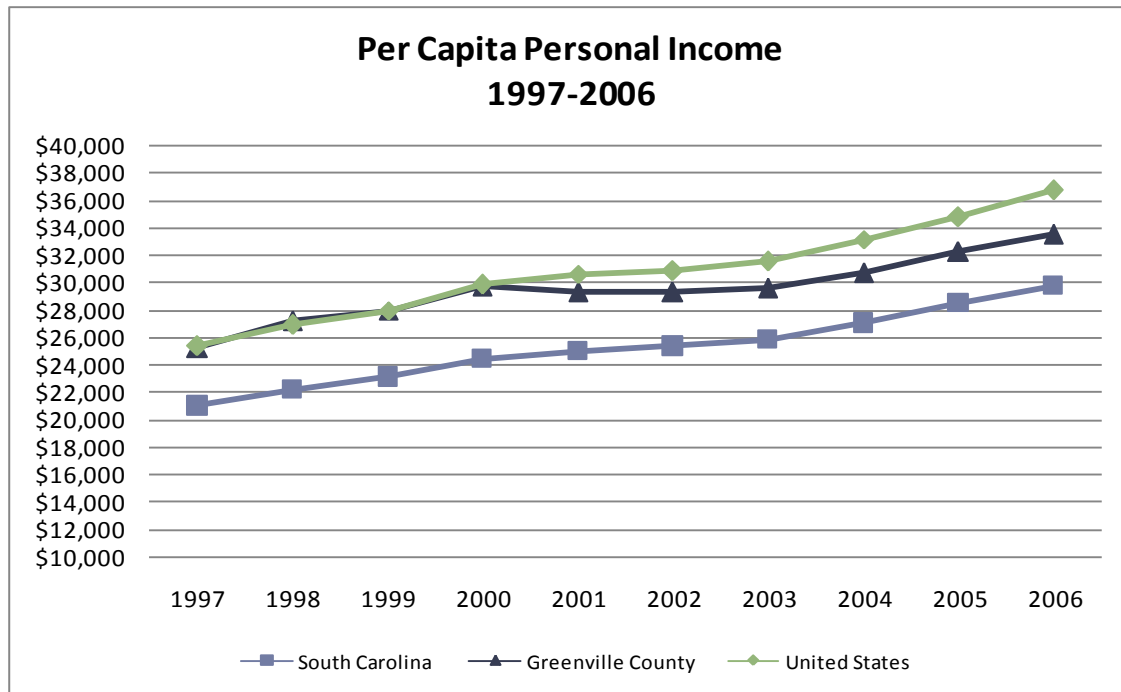
Greenville	7.5%
Taylors	3.1%
Simpsonville	2.6%
Wade Hampton	2.6%
Greer	2.2%
Gantt	2.0%
Mauldin	2.0%
Berea	1.8%
Easley	1.4%
Five Forks	1.4%
All other locations	73.5%

*Source: U.S. Census Bureau, Local Employment Dynamics*

# INCOME

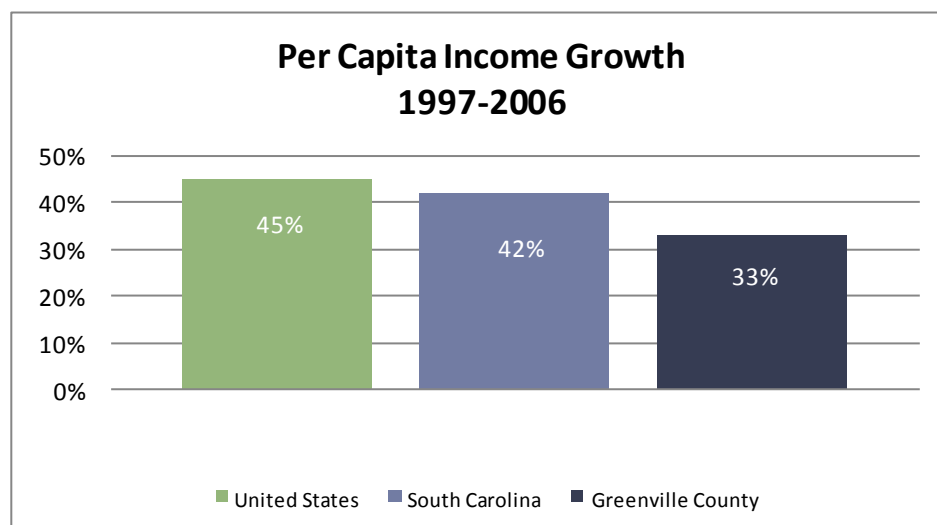
## Personal Income

Greenville County's per capita income has been consistently higher than South Carolina's. But, in 2001, it began trailing the nation and moving closer to the state. A decline in manufacturing employment in Greenville County parallels the drop in per capita income.



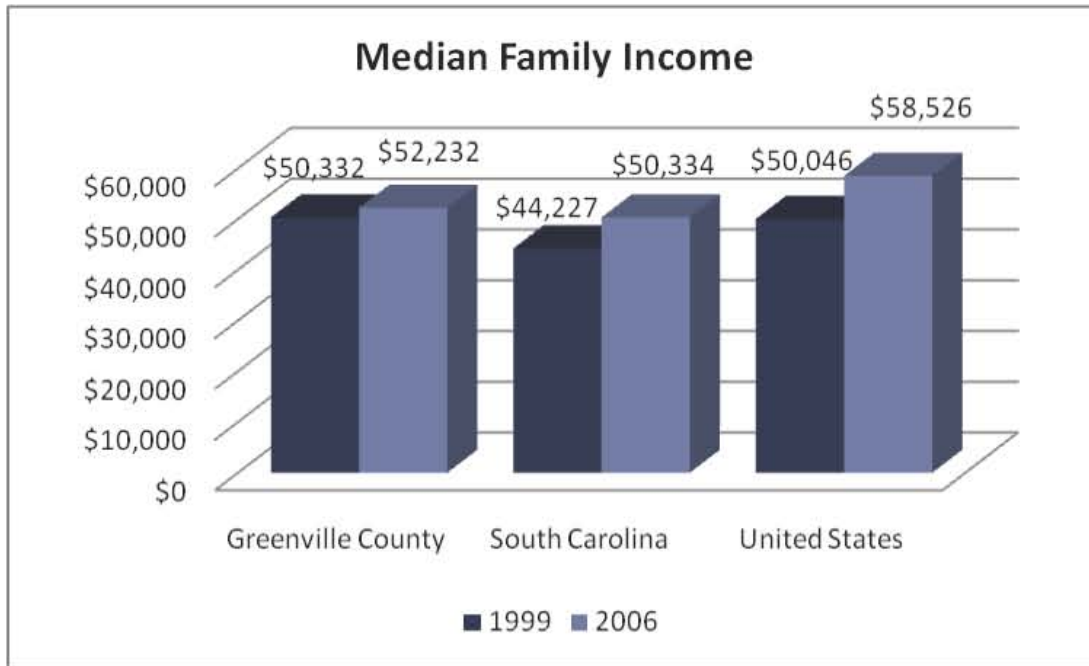
Source: U.S. Department of Commerce, Bureau of Economic Analysis

Ten-year growth in per capita personal income has been slower in Greenville County than in South Carolina or the United States.



Source: U.S. Department of Commerce, Bureau of Economic Analysis

Median family income numbers tell a similar story. Greenville County actually had a higher median family income than the U.S. in 1999. However, by 2006, South Carolina had made great strides in median family income, while Greenville County's growth was much slower and far behind the national average.



Sources: U.S. Census Bureau, 2000 Census & 2006 American Community Survey.

## Wages by Industry

Greenville County has higher average wages than South Carolina (\$707 vs. \$659 in 2006). Average wages in Greenville County increased 28% over the past ten years. All industries saw double-digit growth with the exception of the three below that had declines:

- Agriculture and Forestry Declined by 2%
- Administration & Support, Waste Management & Remediation Declined by 6%
- Accommodation & Food Services Declined by 12%

Industry	NAICS Code	2006 Average Weekly Wage	1996 Average Weekly Wage	Change
Total, Private and Government		\$707	\$512	28%
Agriculture, Forestry, and Hunting	11	\$368	\$374	-2%
Mining	21	\$927	\$802	13%
Construction	23	\$763	\$564	26%
Manufacturing	31-33	\$896	\$650	27%
Wholesale Trade	42	\$998	\$653	35%
Retail Trade	44-45	\$490	\$297	39%
Transportation and Warehousing	48-49	\$801	\$539	33%
Utilities	22	\$1,398	\$872	38%
Information	51	\$960	\$673	30%
Finance and Insurance	52	\$1,106	\$786	29%
Real Estate and Rental and Leasing	53	\$648	\$584	10%
Professional and Technical Services	54	\$1,144	\$959	16%
Management of Companies and Enterprises	55	\$1,276	\$866	32%
Administration & Support & Waste Management & Remediation Services	56	\$431	\$456	-6%
Educational Services	61	\$622	\$382	39%
Health Care and Social Assistance	62	\$763	\$483	37%
Arts, Entertainment, and Recreation	71	\$299	\$262	12%
Accommodation and Food Services	72	\$256	\$287	-12%
Other Services (Except Public Administration)	81	\$475	\$382	20%
Federal Government		\$1,143	\$784	31%
State Government		\$639	\$451	29%
Local Government		\$751	\$549	27%

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages

## Wages by Occupation

In comparing Greenville County occupational wages to South Carolina, wages are higher in all occupation groups with the exception of the following:

- Community and social service occupations
- Education, training, and library occupations

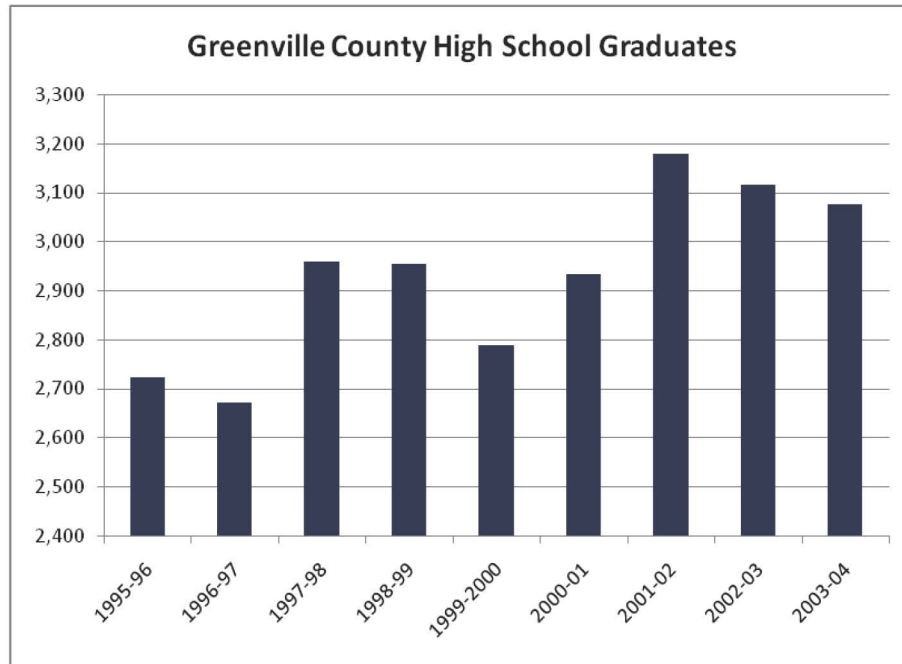
Occupation	2006 Greenville County Median Hourly Wage	2006 SC Median Hourly Wage
Management occupations	\$35.97	\$28.85
Business & financial operations occupations	\$22.50	\$20.44
Computer & mathematical science occupations	\$29.53	\$26.48
Architecture & engineering occupations	\$34.74	\$30.24
Life, physical & social science occupations	\$25.52	\$22.94
Community & social services occupations	\$13.77	\$13.81
Legal occupations	\$39.64	\$30.76
Education, training & library occupations	\$20.97	\$21.98
Arts, design, entertainment, sports & media occupations	\$14.55	\$12.78
Healthcare practitioners & technical occupations	\$34.74	\$30.69
Healthcare support occupations	\$11.66	\$10.56
Protective service occupations	\$14.85	\$13.94
Food preparation & serving related occupations	\$8.20	\$7.91
Building & grounds cleaning & maintenance occupations	\$9.22	\$8.47
Personal care & service occupations	\$8.95	\$8.43
Sales & related occupations	\$15.61	\$13.49
Office & administrative support occupations	\$14.44	\$13.40
Farming, fishing & forestry occupations	\$13.89	\$13.11
Construction & extraction occupations	\$18.04	\$16.51
Installation, maintenance & repair occupations	\$17.55	\$16.92
Production occupations	\$15.27	\$15.21
Transportation & material moving occupations	\$13.81	\$12.92

Source: *Economic Modeling Specialists, Inc.*

## EDUCATION

### High School Graduation Rates

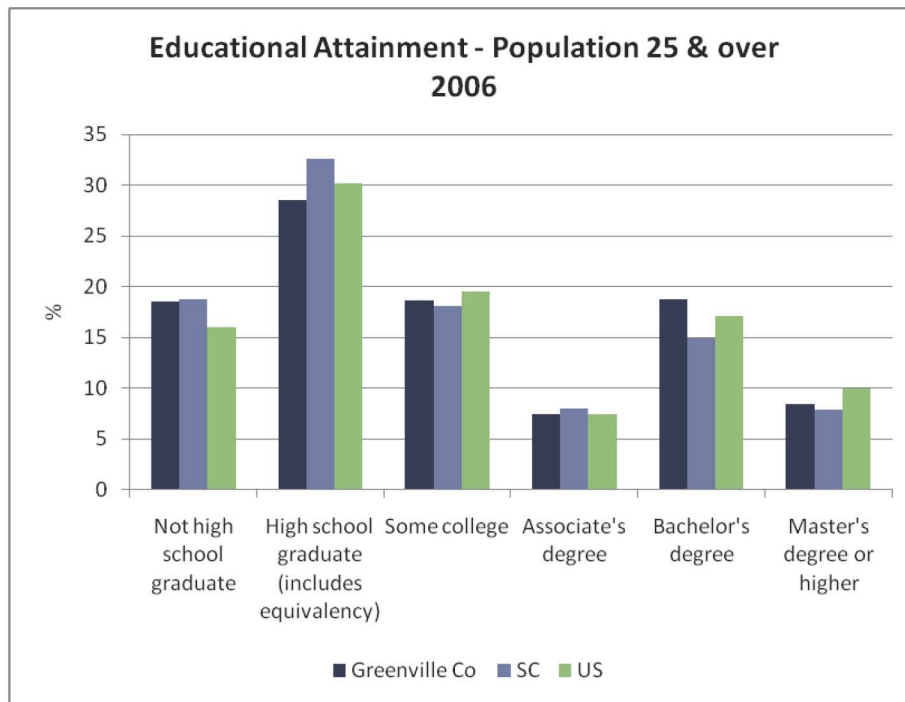
From 1995-2004 (latest available), the number of Greenville County students receiving high school diplomas increased by 353—or 13%—to over 3,000. In South Carolina, students receiving high school diplomas was up 10%. These numbers do not include those not passing the exit exam who received a certificate of completion rather than a diploma. In Greenville County, the number of students receiving a certificate instead of a diploma increased by 108 (to 245) over the same period.



Source: National Center for Education Statistics

### Educational Attainment

Greenville County has a higher education level than South Carolina, but lower than the nation, with the exception of Bachelor's degree holders.



Source: U.S. Census Bureau, American Community Survey



## Higher Education Graduates

Over 3,800 more students graduated from higher educational institutions in the Greenville County area in 2006 than in 1996, an increase of 29%. The greatest numerical increase was in health-related fields. Computer and information degrees increased 60%. There were notable increases in business and math degrees as well.

Program	1996	2006	Change	% Change
Personal & culinary services	8	68	60	88%
Public administration & social service professions	12	73	61	84%
Philosophy & religious studies	30	123	93	76%
Communication, journalism, & related programs	61	161	100	62%
Computer & information sciences & support services	191	479	288	60%
Parks, recreation, leisure, & fitness studies	119	224	105	47%
Health professions & related clinical sciences	988	1,815	827	46%
Mechanic & repair technologies/technicians	303	550	247	45%
Visual & performing arts	192	336	144	43%
Liberal arts & sciences, general studies & humanities	392	626	234	37%
Multi/interdisciplinary studies	87	136	49	36%
Security & protective services	110	167	57	34%
Social sciences & history	433	642	209	33%
Legal professions & studies	44	64	20	31%
English language & literature/letters	217	314	97	31%
Transportation & materials moving	90	129	39	30%
Business, management, marketing, & related support services	1691	2,395	756	29%
Mathematics & statistics	60	82	22	27%
Psychology	287	380	93	24%
Area, ethnic, cultural, & gender studies	4	5	1	20%
Foreign languages, literatures, & linguistics	105	128	23	18%
Education	1325	1,593	268	17%
Theology & religious vocations	215	255	40	16%
Communications technologies/technicians & support services	10	11	1	9%
Engineering	709	752	43	6%
Natural resources & conservation	58	59	1	2%
Family & consumer sciences/human sciences	125	126	1	1%
Physical sciences	164	163	(1)	-1%
Biological & biomedical sciences	350	334	(16)	-5%
Agriculture, agriculture operations, & related sciences	229	206	(23)	-11%
Architecture & related services	161	132	(29)	-22%
Engineering technologies/technicians	172	135	(37)	-27%
Construction trades	50	36	(14)	-39%
Precision production	207	145	(62)	-43%
Science technologies/technicians	--	34	--	--
<b>TOTAL DEGREES AWARDED</b>	<b>9,199</b>	<b>12,878</b>	<b>3,679</b>	<b>29%</b>

Source: National Center for Education Statistics (Integrated Post Secondary Education System)

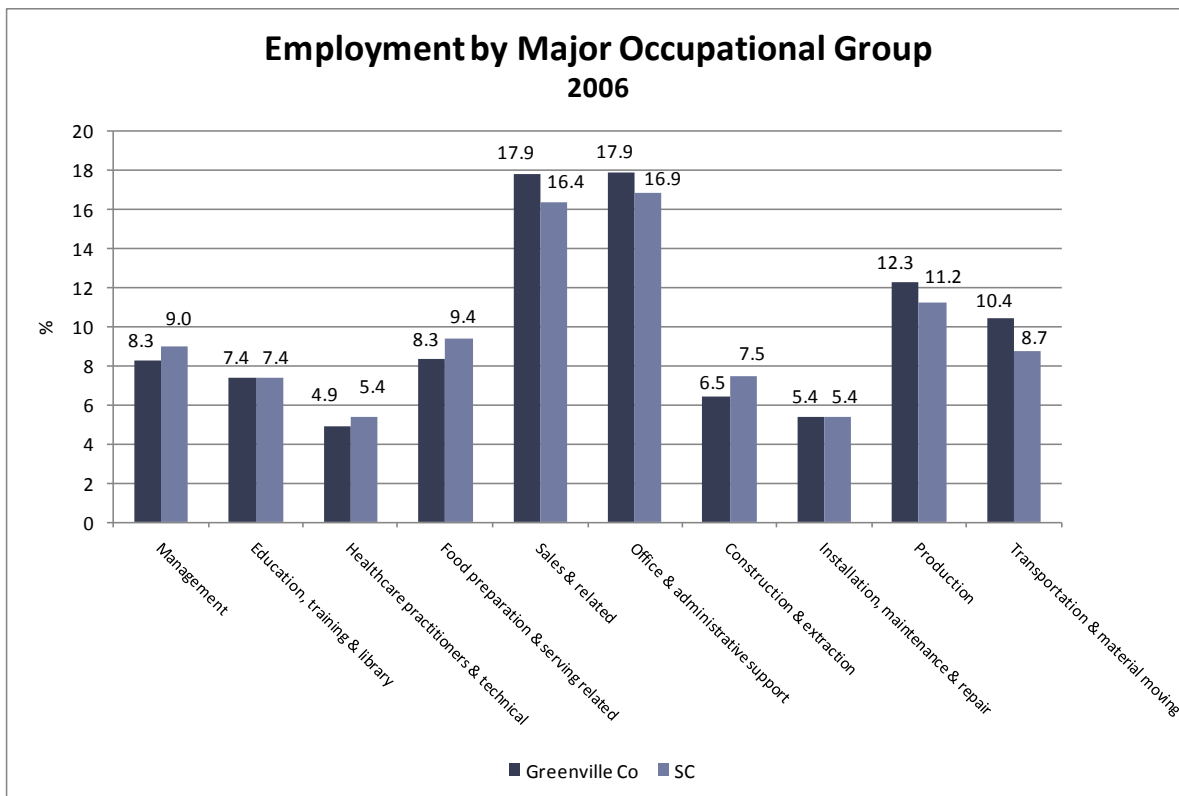
Data for these schools: Anderson University, Bob Jones University, Southern Wesleyan University, Clemson University, Converse College, Erskine College, Furman University, Greenville Technical College, North Greenville University, USC-Upstate, Spartanburg Methodist College, Spartanburg Community College, Tri-County Technical College, Wofford College, ITT Tech-Greenville.



## OCCUPATIONS

Consistent with its industry employment, Greenville County has higher concentrations of employment in the following occupational groups:

- Sales & Related Occupations
- Office & Administrative Support Occupations
- Production Occupations
- Transportation & Material Moving Occupations



Source: Economic Modeling Specialists, Inc.

## Occupational Projections

In most occupational categories, ten-year projected occupational growth rates for South Carolina are higher than Greenville County. The following three occupational groups are projected to grow faster in Greenville County than in the state:

- Healthcare Support Occupations Projected to grow 2% more than SC projection
- Food Preparation & Serving-related Occupations Projected to grow 1% more than SC projection
- Farming & Forestry Occupations Projected to grow 6% more than SC projection

Please see **Appendix A** for all occupational categories.

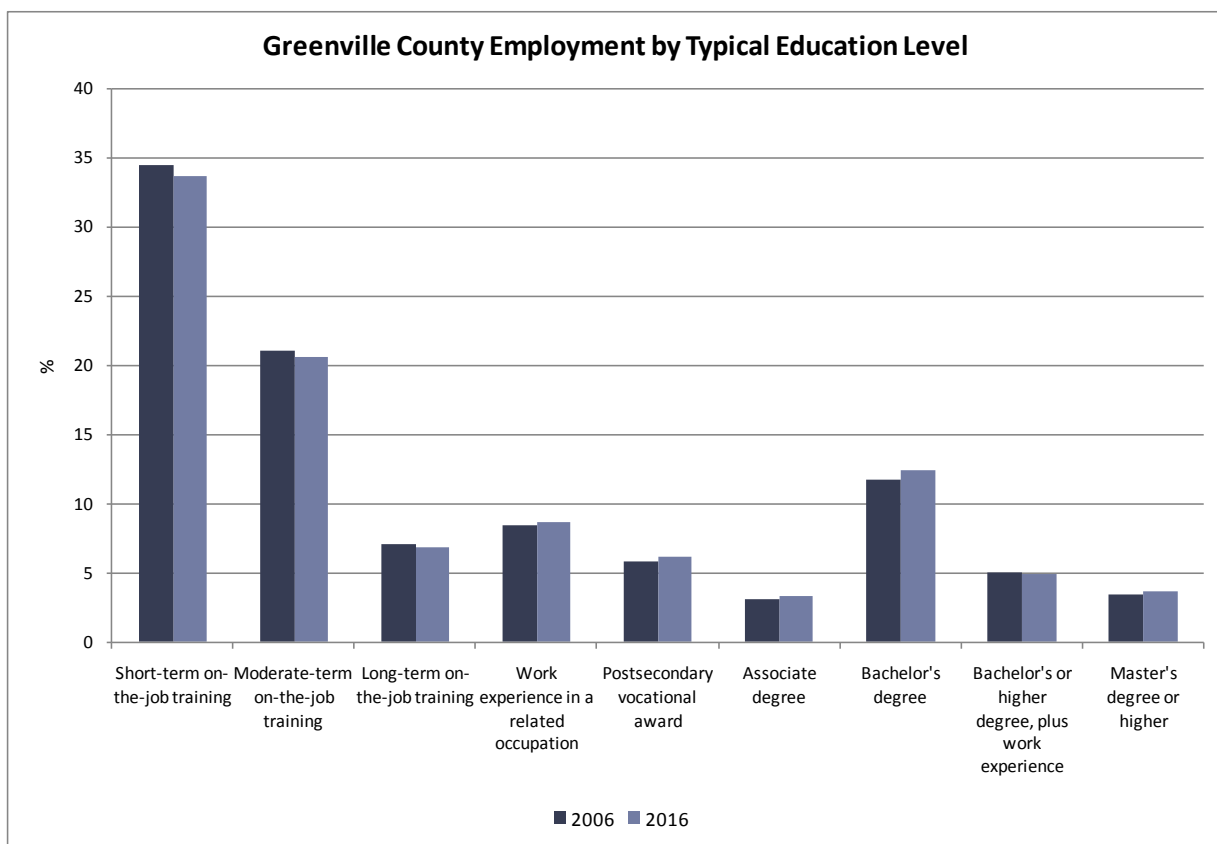
Occupation	2006-2016	
	Greenville County Projected Growth	2006-2016 SC Projected Growth
Management occupations	16%	18%
Business & financial operations occupations	18%	24%
Computer & mathematical science occupations	22%	27%
Architecture & engineering occupations	15%	19%
Life, physical & social science occupations	14%	17%
Community & social services occupations	14%	16%
Legal occupations	19%	24%
Education, training & library occupations	18%	18%
Arts, design, entertainment, sports & media occupations	16%	20%
Healthcare practitioners & technical occupations	26%	27%
Healthcare support occupations	29%	27%
Protective service occupations	19%	23%
Food preparation & serving related occupations	16%	15%
Building & grounds cleaning & maintenance occupations	20%	26%
Personal care & service occupations	7%	9%
Sales & related occupations	18%	21%
Office & administrative support occupations	11%	15%
Farming, & forestry occupations	23%	17%
Construction & extraction occupations	12%	20%
Installation, maintenance & repair occupations	14%	19%
Production occupations	3%	11%
Transportation & material moving occupations	5%	13%

Source: Economic Modeling Specialists, Inc.

## Occupational Education Requirements

The trend for occupational growth shows that over the next ten years, occupations will require more education in general. This is reflected in the projected growth of occupations such as managers, engineers, computer professionals, science technicians, and healthcare professionals in Greenville County. The following types of occupational education requirements will see more growth:

- Work experience in a related occupation
- Postsecondary vocational award
- Associate degree
- Bachelor's degree



Source: Economic Modeling Specialists, Inc and U.S. Department of Labor

## INDUSTRY

### Businesses by Sector

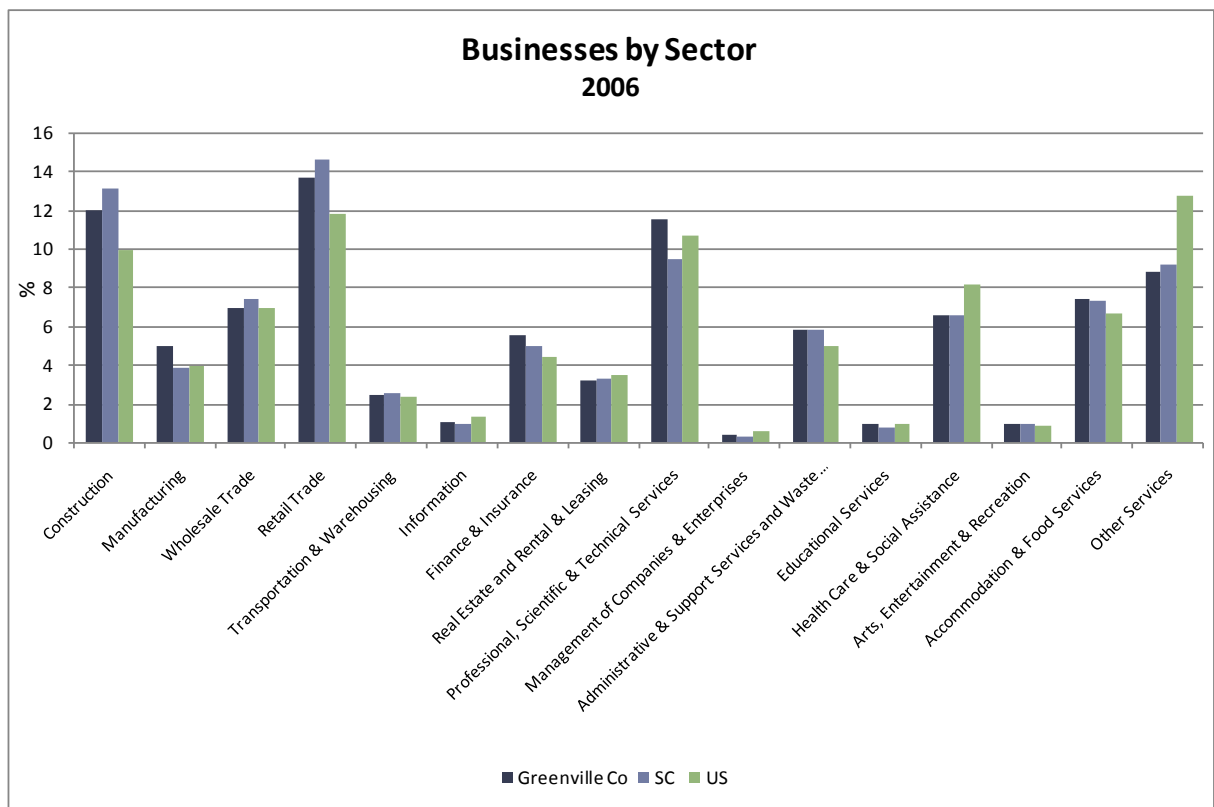
Greenville County had higher percentages of businesses than South Carolina or the nation in the following business sectors:

- Manufacturing,
- Financing & Insurance, and
- Professional, Scientific & Technical Services

These higher percentages are attributable to the fact that Greenville is a manufacturing and engineering hub in South Carolina.



*Greenville Skyline*



Source: U.S. Department of Labor, Bureau of Labor Statistics



Greenville County has seen tremendous business growth over the past ten years in many industries. For industry definitions, the comparison uses the North American Industry Classification System (NAICS), the U.S. standard for industry definitions.

At the three-digit NAICS code level, Greenville County has seen higher growth in 28 industries compared to South Carolina and U.S. growth for the same industries. Growth in these industries can be attributed to Greenville's fast population growth since many of the industries support the consumer.

To the right is a list of the 28 industries that grew faster in Greenville County than in South Carolina or the U.S. Percentages of growth are also included. *Please see **Appendix B** for all categories and corresponding statistics.*

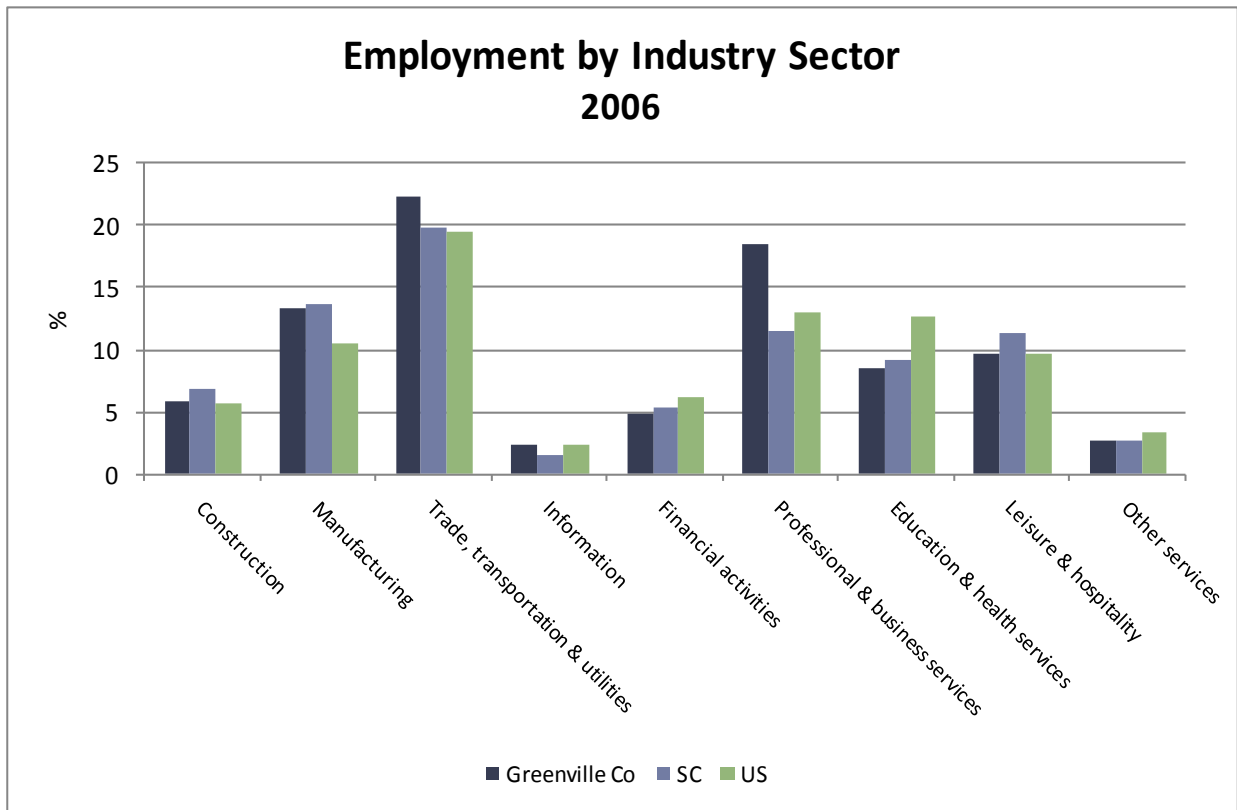
## Growth in Number of Businesses

Industry	1996-2006 Percentage Growth (%)		
	Greenville Co.	SC	US
Food services & drinking places	<b>43.3</b>	37.3	18.1
Ambulatory health care services	<b>44.1</b>	37.3	18.2
Real estate	<b>76.8</b>	76.6	32.6
Credit intermediation & related activities	<b>69.8</b>	62.3	50.3
Personal & laundry services	<b>61.7</b>	33.4	7.9
Educational services	<b>100.0</b>	94.6	51.9
Health & personal care stores	<b>36.0</b>	27.1	11.7
Social assistance	<b>53.9</b>	30.9	46.7
Accommodation	<b>91.1</b>	29.9	13.9
General merchandise stores	<b>69.8</b>	44.7	25.7
Nursing & residential care facilities	<b>79.4</b>	41.6	30.2
Furniture & home furnishing stores	<b>21.3</b>	15.8	5.4
Telecommunications	<b>69.7</b>	51.3	35.8
Food & beverage stores	<b>10.9</b>	-3.6	-2.5
Couriers & messengers	<b>88.9</b>	60.9	34.2
Sporting goods, hobby, book, & music stores	<b>15.2</b>	10.1	-11.5
Building material & garden supply stores	<b>10.1</b>	3.7	-5.3
Publishing industries, except internet	<b>45.2</b>	36.1	3.2
Non-store retailers	<b>33.3</b>	-3.6	12.7
Plastics & rubber product manufacturing	<b>36.7</b>	12.3	-8.7
Waste management & remediation services	<b>55.0</b>	49.8	13.5
Non-metallic mineral product manufacturing	<b>45.0</b>	21.1	5.4
Warehousing & storage	<b>25.8</b>	13.7	16.0
Utilities	<b>70.0</b>	35.8	7.9
Air transportation	<b>55.6</b>	45.3	8.4
Electrical equipment & appliance manufacturing	<b>33.3</b>	19.8	-5.3
Crop production	<b>50.0</b>	-98.2	-12.3

*Source: U.S. Department of Labor, Bureau of Labor Statistics*

## Employment by Sector

Compared to South Carolina and the United States, Greenville County's employment is more concentrated in trade, transportation and utilities, and professional and business services. Manufacturing is also a significant employer.



Source: U.S. Department of Labor, Bureau of Labor Statistics

## Competitive Industries

In determining competitive industries in Greenville County, industry sectors were rated on six factors:

- 1996-2006 employment growth Competitive effect<sup>2</sup>
- 1996-2006 employment growth rate Average annual wage
- Location quotient<sup>1</sup> Projected growth

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 1996-2006 employment growth of 100 or more (Did the sector add a significant number of jobs?)
- 1996-2006 employment growth rate greater than 11% (Did the sector exceed overall job growth in Greenville County?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in Greenville County?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than \$36,755 (2006 average for Greenville County) (Does the sector pay wages greater than average for Greenville County?)
- Average or above average projected growth (Is the sector expected to add jobs?)

### SIX STAR SECTORS ★★★★★★

Based on these criteria, the following are “six star” sectors in Greenville County:

- Electrical equipment and appliance manufacturing
- Merchant wholesalers, durable goods
- Support activities for transportation
- Telecommunications

### FIVE STAR SECTORS ★★★★★

The following are “five star” sectors (meet all criteria except location quotient of at least 1.25):

- Heavy and civil engineering construction
- Nonmetallic mineral product manufacturing
- Professional and Technical Services
- Ambulatory health care services
- Hospitals

Below are “five star” sectors (meet all criteria except wages above average):

- Clothing and clothing accessories stores
- Administrative and support services

**Appendix C** has information on all factors for all sectors for Greenville County.

<sup>1</sup>Location Quotient: percentage of employment in the sector in Greenville County divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in Greenville County compared to the US; based on 2006 data.

<sup>2</sup>Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in Greenville County after accounting for overall US employment growth and growth/decline in the sector in the US.

## MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of Greenville County's labor market. We hope that it will help in advancing the progress of Greenville County's economic development.

### What's been done so far?

The first step of the Greenville labor market analysis was to identify the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed an initial Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

### What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Greenville Base Labor Analysis report should be used as input in a meeting of local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

1. ***What is Greenville's economic base?***

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

2. ***What are strategies to assist low-wage citizens in non-base economy jobs?***

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

3. ***What other factors are vital to Greenville and its community?***

Over and above pure economic considerations, what is important to the citizens of the Greenville community? How does Greenville want to be perceived? What quality of life issues affect Greenville? These questions may impact the types of industries desired for the area.



## How Labor Market Information at the S.C. Department of Commerce can help.

Once local Greenville stakeholders have identified key industry clusters vital to the future economic development of their region, LMI can delve into a more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

### 1. **Detailed Industry Analysis**

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients<sup>1</sup>, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

### 2. **Detailed Occupational Analysis**

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

### 3. **Identification of Implementable Recommendations**

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.





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## Appendix A: Occupational Projections for Greenville County

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
11-2011	Advertising and promotions managers	Bachelor's or higher degree, plus work experience	117	125	8	7	1.23	\$26.75
11-2021	Marketing managers	Bachelor's or higher degree, plus work experience	369	418	49	13	1.04	\$39.42
11-2022	Sales managers	Bachelor's or higher degree, plus work experience	985	1,102	117	12	1.61	\$36.21
11-2031	Public relations managers	Bachelor's or higher degree, plus work experience	98	113	15	15	1.14	\$27.16
11-3011	Administrative services managers	Bachelor's or higher degree, plus work experience	495	578	83	17	1.20	\$23.56
11-3021	Computer and information systems managers	Bachelor's or higher degree, plus work experience	438	511	73	17	0.92	\$39.71
11-3031	Financial managers	Bachelor's or higher degree, plus work experience	1,000	1,169	169	17	0.88	\$37.26
11-3041	Compensation and benefits managers	Bachelor's or higher degree, plus work experience	137	154	17	12	1.55	\$31.94
11-3042	Training and development managers	Bachelor's or higher degree, plus work experience	69	82	13	19	1.24	\$27.82
11-3049	Human resources managers, all other	Bachelor's or higher degree, plus work experience	106	120	14	13	1.02	\$35.51
11-3051	Industrial production managers	Work experience in a related occupation	365	374	9	2	1.34	\$39.17

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
11-3061	Purchasing managers	Bachelor's or higher degree, plus work experience	135	143	8	6	1.15	\$35.37
11-3071	Transportation, storage, and distribution managers	Work experience in a related occupation	226	253	27	12	1.30	\$30.35
11-9011	Farm, ranch, and other agricultural managers	Bachelor's or higher degree, plus work experience	147	151	4	3	0.25	\$5.87
11-9012	Farmers and ranchers	Long-term on-the-job training	734	753	19	3	0.25	\$5.85
11-9021	Construction managers	Bachelor's degree	1,213	1,442	229	19	0.95	\$27.48
11-9031	Education administrators, preschool and child care center/program	Bachelor's or higher degree, plus work experience	248	313	65	26	1.12	\$9.79
11-9032	Education administrators, elementary and secondary school	Bachelor's or higher degree, plus work experience	373	454	81	22	0.71	\$22.12
11-9033	Education administrators, postsecondary	Bachelor's or higher degree, plus work experience	449	533	84	19	1.30	\$17.62
11-9039	Education administrators, all other	Bachelor's or higher degree, plus work experience	182	241	59	32	1.08	\$13.11
11-9041	Engineering managers	Bachelor's or higher degree, plus work experience	332	371	39	12	1.02	\$45.83
11-9051	Food service managers	Work experience in a related occupation	565	718	153	27	0.74	\$26.32
11-9061	Funeral directors	Associate degree	55	46	(9)	-16	1.14	\$30.30
11-9071	Gaming managers	Work experience in a related occupation	11	14	3	27	0.53	\$9.14
11-9081	Lodging managers	Work experience in a related occupation	188	261	73	39	0.77	\$32.77
11-9111	Medical and health services managers	Bachelor's or higher degree, plus work experience	531	640	109	21	1.03	\$32.47

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
11-9121	Natural sciences managers	Bachelor's or higher degree, plus work experience	10	13	3	30	0.15	\$66.93
11-9131	Postmasters and mail superintendents	Work experience in a related occupation	18	19	1	6	0.45	\$42.19
11-9141	Property, real estate, and community association managers	Bachelor's degree	1,729	2,470	741	43	0.86	\$14.55
11-9151	Social and community service managers	Bachelor's degree	161	189	28	17	0.65	\$15.00
11-9199	Managers, all other	Work experience in a related occupation	1,783	2,136	353	20	0.66	\$74.54
11-1011	Chief executives	Bachelor's or higher degree, plus work experience	1,993	2,272	279	14	1.05	\$59.82
11-1021	General and operations managers	Bachelor's or higher degree, plus work experience	4,424	4,578	154	3	1.41	\$35.92
11-1031	Legislators	Bachelor's or higher degree, plus work experience	146	157	11	8	1.38	\$12.77
13-1011	Agents and business managers of artists, performers, and athletes	Bachelor's or higher degree, plus work experience	32	43	11	34	0.48	\$7.92
13-1021	Purchasing agents and buyers, farm products	Work experience in a related occupation	17	15	(2)	-12	0.64	\$27.72
13-1022	Wholesale and retail buyers, except farm products	Work experience in a related occupation	308	302	(6)	-2	1.05	\$25.68
13-1023	Purchasing agents, except wholesale, retail, and farm products	Work experience in a related occupation	421	453	32	8	0.84	\$24.56
13-1031	Claims adjusters, examiners, and investigators	Long-term on-the-job training	371	316	(55)	-15	0.70	\$26.91
13-1032	Insurance appraisers, auto damage	Long-term on-the-job training	40	40	0	0	0.82	\$22.42
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	Long-term on-the-job training	238	274	36	15	0.61	\$17.45
13-1051	Cost estimators	Work experience in a related occupation	344	406	62	18	0.83	\$23.24

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
13-1061	Emergency management specialists	Work experience in a related occupation	34	39	5	15	1.56	\$23.69
13-1071	Employment, recruitment, and placement specialists	Bachelor's degree	364	433	69	19	1.05	\$20.55
13-1072	Compensation, benefits, and job analysis specialists	Bachelor's degree	177	206	29	16	0.89	\$26.61
13-1073	Training and development specialists	Bachelor's degree	304	376	72	24	0.83	\$24.80
13-1079	Human resources, training, and labor relations specialists, all other	Bachelor's degree	152	184	32	21	0.39	\$28.95
13-1081	Logisticians	Bachelor's degree	89	119	30	34	0.64	\$30.37
13-1111	Management analysts	Bachelor's or higher degree, plus work experience	1,119	1,332	213	19	0.65	\$22.01
13-1121	Meeting and convention planners	Bachelor's degree	107	146	39	36	0.74	\$13.65
13-1199	Business operation specialists, all other	Bachelor's degree	705	897	192	27	0.40	\$24.82
13-2011	Accountants and auditors	Bachelor's degree	2,154	2,534	380	18	0.82	\$22.33
13-2021	Appraisers and assessors of real estate	Postsecondary vocational award	662	928	266	40	0.91	\$16.75
13-2031	Budget analysts	Bachelor's degree	38	43	5	13	0.37	\$25.36
13-2041	Credit analysts	Bachelor's degree	91	93	2	2	0.77	\$28.02
13-2051	Financial analysts	Bachelor's degree	335	457	122	36	0.59	\$20.09
13-2052	Personal financial advisors	Bachelor's degree	879	1,266	387	44	0.74	\$13.25
13-2053	Insurance underwriters	Bachelor's degree	197	166	(31)	-16	1.04	\$17.58
13-2061	Financial examiners	Bachelor's degree	50	53	3	6	1.14	\$24.01
13-2071	Loan counselors	Bachelor's degree	167	169	2	1	1.84	\$24.38
13-2072	Loan officers	Bachelor's degree	863	942	79	9	1.28	\$35.19
13-2081	Tax examiners, collectors, and revenue agents	Bachelor's degree	29	33	4	14	0.23	\$32.58
13-2082	Tax preparers	Moderate-term on-the-job training	212	203	(9)	-4	1.05	\$13.45
13-2099	Financial specialists, all other	Bachelor's degree	130	117	(13)	-10	0.51	\$18.87
15-1011	Computer and information scientists, research	Doctoral degree	62	70	8	13	0.57	\$26.29
15-1021	Computer programmers	Bachelor's degree	1,345	1,329	(16)	-1	1.61	\$29.61
15-1031	Computer software engineers, applications	Bachelor's degree	491	700	209	43	0.55	\$35.35
15-1032	Computer software engineers, systems software	Bachelor's degree	488	658	170	35	0.75	\$33.25

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
15-1041	Computer support specialists	Associate degree	893	1,039	146	16	0.93	\$18.52
15-1051	Computer systems analysts	Bachelor's degree	1,252	1,632	380	30	1.48	\$35.70
15-1061	Database administrators	Bachelor's degree	278	367	89	32	1.38	\$32.54
15-1071	Network and computer systems administrators	Bachelor's degree	339	430	91	27	0.64	\$29.12
15-1081	Network systems and data communications analysts	Bachelor's degree	377	549	172	46	0.80	\$22.87
15-1099	Computer specialists, all other	Associate degree	208	243	35	17	0.55	\$20.97
15-2011	Actuaries	Bachelor's or higher degree, plus work experience	30	32	2	7	0.93	\$42.49
15-2021	Mathematicians	Doctoral degree	0	5	--			
15-2031	Operations research analysts	Master's degree	105	120	15	14	1.01	\$36.51
15-2041	Statisticians	Master's degree	27	32	5	19	0.77	\$25.78
15-2091	Mathematical technicians	Master's degree	0	5	--			
15-2099	Mathematical scientists, all other	Master's degree	5	5	--			
17-1011	Architects, except landscape and naval	Bachelor's degree	177	197	20	11	0.69	\$42.01
17-1012	Landscape architects	Bachelor's degree	120	139	19	16	1.04	\$40.47
17-1021	Cartographers and photogrammetrists	Bachelor's degree	19	23	4	21	0.71	\$39.17
17-1022	Surveyors	Bachelor's degree	72	84	12	17	0.68	\$21.23
17-2011	Aerospace engineers	Bachelor's degree	36	33	(3)	-8	0.24	\$66.19
17-2021	Agricultural engineers	Bachelor's degree	20	22	2	10	1.28	\$53.02
17-2031	Biomedical engineers	Bachelor's degree	21	27	6	29	0.60	\$44.94
17-2041	Chemical engineers	Bachelor's degree	235	253	18	8	4.62	\$54.67
17-2051	Civil engineers	Bachelor's degree	331	380	49	15	0.68	\$34.28
17-2061	Computer hardware engineers	Bachelor's degree	40	48	8	20	0.29	\$40.59
17-2071	Electrical engineers	Bachelor's degree	790	859	69	9	2.97	\$40.13
17-2072	Electronics engineers, except computer	Bachelor's degree	267	304	37	14	1.09	\$32.61
17-2081	Environmental engineers	Bachelor's degree	67	84	17	25	0.73	\$32.12
17-2111	Health and safety engineers, except mining safety engineers and inspectors	Bachelor's degree	68	75	7	10	1.53	\$37.33
17-2112	Industrial engineers	Bachelor's degree	994	1,323	329	33	2.89	\$31.99
17-2121	Marine engineers and naval architects	Bachelor's degree	10	13	--			
17-2131	Materials engineers	Bachelor's degree	49	58	9	18	1.34	\$37.55
17-2141	Mechanical engineers	Bachelor's degree	627	715	88	14	1.62	\$36.87
17-2151	Mining and geological engineers, including mining safety engineers	Bachelor's degree	5	5	--			



SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
17-2161	Nuclear engineers	Bachelor's degree	182	212	30	16	3.85	\$67.26
17-2171	Petroleum engineers	Bachelor's degree	5	12	--			
17-2199	Engineers, all other	Bachelor's degree	236	264	28	12	0.81	\$35.99
17-3011	Architectural and civil drafters	Postsecondary vocational award	174	172	(2)	-1	0.86	\$23.94
17-3012	Electrical and electronics drafters	Postsecondary vocational award	120	130	10	8	1.79	\$23.93
17-3013	Mechanical drafters	Postsecondary vocational award	222	239	17	8	1.63	\$26.64
17-3019	Drafters, all other	Postsecondary vocational award	25	27	2	8	0.50	\$35.75
17-3021	Aerospace engineering and operations technicians	Associate degree	5	5	--			
17-3022	Civil engineering technicians	Associate degree	133	144	11	8	0.88	\$16.91
17-3023	Electrical and electronic engineering technicians	Associate degree	503	548	45	9	1.70	\$24.86
17-3024	Electro-mechanical technicians	Associate degree	22	24	2	9	0.82	\$30.80
17-3025	Environmental engineering technicians	Associate degree	27	33	6	22	0.75	\$25.21
17-3026	Industrial engineering technicians	Associate degree	165	201	36	22	1.30	\$19.12
17-3027	Mechanical engineering technicians	Associate degree	106	123	17	16	1.30	\$28.75
17-3029	Engineering technicians, except drafters, all other	Associate degree	212	239	27	13	1.55	\$38.39
17-3031	Surveying and mapping technicians	Moderate-term on-the-job training	121	136	15	12	0.85	\$23.00
19-1011	Animal scientists	Bachelor's degree	5	5	--			
19-1012	Food scientists and technologists	Bachelor's degree	5	5	--			
19-1013	Soil and plant Scientists	Bachelor's degree	5	5	--			
19-1021	Biochemists and biophysicists	Doctoral degree	5	5	--			
19-1022	Microbiologists	Doctoral degree	5	5	--			
19-1023	Zoologists and wildlife biologists	Bachelor's degree	5	5	--			
19-1029	Biological scientists, all other	Bachelor's degree	5	10	--			
19-1031	Conservation scientists	Bachelor's degree	5	10	--			
19-1032	Foresters	Bachelor's degree	15	17	2	13	0.53	\$29.53
19-1041	Epidemiologists	Master's degree	5	5	--			
19-1042	Medical scientists, except epidemiologists	Doctoral degree	16	23	7	44	0.11	\$30.75
19-1099	Life scientists, all other	Bachelor's degree	5	5	--			
19-2011	Astronomers	Doctoral degree	5	5	--			

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
19-2012	Physicists	Doctoral degree	5	5	--			
19-2021	Atmospheric and space scientists	Bachelor's degree	5	5	--			
19-2031	Chemists	Bachelor's degree	160	161	1	1	1.12	\$26.73
19-2032	Materials scientists	Bachelor's degree	5	5	--			
19-2041	Environmental scientists and specialists, including health	Master's degree	34	43	9	26	0.21	\$24.55
19-2042	Geoscientists, except hydrologists and geographers	Master's degree	86	106	20	23	1.15	\$17.87
19-2043	Hydrologists	Master's degree	14	17	3	21	0.37	\$24.59
19-2099	Physical scientists, all other	Bachelor's degree	19	24	5	26	0.34	\$59.95
19-3011	Economists	Master's degree	5	5	--			
19-3021	Market research analysts	Bachelor's degree	287	337	50	17	0.63	\$26.60
19-3022	Survey researchers	Bachelor's degree	64	68	4	6	0.56	\$16.37
19-3031	Clinical, counseling, and school psychologists	Doctoral degree	185	202	17	9	0.62	\$24.77
19-3032	Industrial-organizational psychologists	Master's degree	71	88	17	24	0.57	\$29.24
19-3039	Psychologists, all other	Master's degree	72	89	17	24	0.53	\$29.21
19-3041	Sociologists	Master's degree	5	5	--			
19-3051	Urban and regional planners	Master's degree	29	35	6	21	0.52	\$23.43
19-3091	Anthropologists and archeologists	Master's degree	5	5	--			
19-3092	Geographers	Master's degree	5	5	--			
19-3093	Historians	Master's degree	5	5	--			
19-3094	Political scientists	Master's degree	5	5	--			
19-3099	Social scientists and related workers, all other	Master's degree	5	5	--			
19-4011	Agricultural and food science technicians	Associate degree	5	5	--			
19-4021	Biological technicians	Associate degree	15	20	5	33	0.12	\$24.06
19-4031	Chemical technicians	Associate degree	218	221	3	1	2.08	\$20.32
19-4041	Geological and petroleum technicians	Associate degree	5	5	--			
19-4051	Nuclear technicians	Associate degree	22	21	(1)	-5	1.71	\$41.73
19-4061	Social science research assistants	Associate degree	5	5	--			
19-4091	Environmental science and protection technicians, including health	Associate degree	25	32	7	28	0.41	\$19.97
19-4092	Forensic science technicians	Associate degree	5	5	--			
19-4093	Forest and conservation technicians	Associate degree	5	10	--			
19-4099	Life, physical, and social science technicians, all other	Associate degree	18	22	4	22	0.17	\$23.14

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
21-1011	Substance abuse and behavioral disorder counselors	Master's degree	50	62	12	24	0.32	\$15.76
21-1012	Educational, vocational, and school counselors	Master's degree	270	315	45	17	0.60	\$20.10
21-1013	Marriage and family therapists	Master's degree	25	28	3	12	0.40	\$15.51
21-1014	Mental health counselors	Master's degree	39	45	6	15	0.21	\$15.15
21-1015	Rehabilitation counselors	Master's degree	208	234	26	13	0.85	\$13.39
21-1019	Counselors, all other	Master's degree	25	30	5	20	0.38	\$14.35
21-1021	Child, family, and school social workers	Bachelor's degree	444	510	66	15	0.92	\$14.03
21-1022	Medical and public health social workers	Bachelor's degree	287	354	67	23	1.30	\$21.21
21-1023	Mental health and substance abuse social workers	Master's degree	136	163	27	20	0.62	\$21.40
21-1029	Social workers, all other	Bachelor's degree	110	131	21	19	0.90	\$17.46
21-1091	Health educators	Master's degree	48	60	12	25	0.47	\$15.31
21-1092	Probation officers and correctional treatment specialists	Bachelor's degree	42	49	7	17	0.27	\$15.59
21-1093	Social and human service assistants	Moderate-term on-the-job training	278	328	50	18	0.48	\$11.21
21-1099	Community and social service specialists, all other	Bachelor's degree	44	56	12	27	0.23	\$14.36
21-2011	Clergy	Master's degree	431	441	10	2	1.41	\$6.75
21-2021	Directors, religious activities and education	Bachelor's degree	211	216	5	2	1.42	\$6.69
21-2099	Religious workers, all other	Bachelor's degree	83	85	2	2	1.39	\$5.97
23-1011	Lawyers	First professional degree	903	1,067	164	18	0.61	\$53.41
23-1021	Administrative law judges, adjudicators, and hearing officers	Bachelor's or higher degree, plus work experience	5	5	--			
23-1022	Arbitrators, mediators, and conciliators	Bachelor's or higher degree, plus work experience	5	10	--			
23-1023	Judges, magistrate judges, and magistrates	Bachelor's or higher degree, plus work experience	68	78	10	15	1.56	\$26.91
23-2011	Paralegals and legal assistants	Associate degree	490	598	108	22	1.17	\$22.15
23-2091	Court reporters	Postsecondary vocational award	28	36	8	29	0.49	\$22.10
23-2092	Law clerks	Bachelor's degree	48	56	8	17	0.57	\$23.77

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
23-2093	Title examiners, abstractors, and searchers	Moderate-term on-the-job training	54	59	5	9	0.38	\$21.58
23-2099	Legal support workers, all other	Bachelor's degree	30	38	8	27	0.30	\$21.76
25-1099	Postsecondary teachers	Doctoral degree	4,383	5,219	836	19	1.47	\$32.81
25-2011	Preschool teachers, except special education	Postsecondary vocational award	680	753	73	11	0.80	\$7.49
25-2012	Kindergarten teachers, except special education	Bachelor's degree	446	474	28	6	1.15	\$21.90
25-2021	Elementary school teachers, except special education	Bachelor's degree	4,448	5,166	718	16	1.15	\$17.20
25-2022	Middle school teachers, except special and vocational education	Bachelor's degree	1,078	1,269	191	18	0.72	\$17.73
25-2023	Vocational education teachers, middle school	Bachelor's or higher degree, plus work experience	96	105	9	9	1.16	\$22.05
25-2031	Secondary school teachers, except special and vocational education	Bachelor's degree	747	897	150	20	0.40	\$24.22
25-2032	Vocational education teachers, secondary school	Bachelor's or higher degree, plus work experience	51	54	3	6	0.27	\$16.49
25-2041	Special education teachers, preschool, kindergarten, and elementary school	Bachelor's degree	227	279	52	23	0.56	\$24.29
25-2042	Special education teachers, middle school	Bachelor's degree	137	155	18	13	0.76	\$47.69
25-2043	Special education teachers, secondary school	Bachelor's degree	73	85	12	16	0.30	\$25.73
25-3011	Adult literacy, remedial education, and GED teachers and instructors	Bachelor's degree	117	156	39	33	0.46	\$15.09
25-3021	Self-enrichment education teachers	Work experience in a related occupation	451	528	77	17	1.01	\$14.12
25-3099	Teachers and instructors, all other	Bachelor's degree	1,831	2,245	414	23	1.57	\$21.05
25-4011	Archivists	Master's degree	5	5	--			
25-4012	Curators	Master's degree	13	15	2	15	0.73	\$31.10
25-4013	Museum Technicians and Conservators	Master's degree	5	5	--			
25-4021	Librarians	Master's degree	219	245	26	12	0.83	\$21.38
25-4031	Library technicians	Postsecondary vocational award	190	229	39	21	0.97	\$11.01

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
25-9011	Audio-visual collections specialists	Moderate-term on-the-job training	44	54	10	23	1.24	\$12.08
25-9021	Farm and home management advisors	Bachelor's degree	60	75	15	25	1.31	\$18.58
25-9031	Instructional coordinators	Master's degree	149	197	48	32	0.64	\$21.65
25-9041	Teacher assistants	Short-term on-the-job training	2,225	2,567	342	15	0.87	\$10.18
25-9099	Education, training, and library workers, all other	Bachelor's degree	81	99	18	22	0.44	\$12.83
27-1011	Art directors	Bachelor's or higher degree, plus work experience	147	181	34	23	0.67	\$13.53
27-1012	Craft artists	Long-term on-the-job training	93	121	28	30	0.56	\$7.27
27-1013	Fine artists, including painters, sculptors, and illustrators	Long-term on-the-job training	98	129	31	32	0.55	\$8.14
27-1014	Multi-media artists and animators	Bachelor's degree	110	144	34	31	0.53	\$9.82
27-1019	Artists and related workers, all other	Long-term on-the-job training	100	131	31	31	0.58	\$7.81
27-1021	Commercial and industrial designers	Bachelor's degree	117	140	23	20	0.93	\$19.47
27-1022	Fashion designers	Associate degree	60	75	15	25	0.63	\$20.08
27-1023	Floral designers	Moderate-term on-the-job training	168	185	17	10	0.96	\$14.33
27-1024	Graphic designers	Bachelor's degree	337	390	53	16	0.81	\$17.71
27-1025	Interior designers	Associate degree	174	215	41	24	1.08	\$18.14
27-1026	Merchandise displayers and window trimmers	Moderate-term on-the-job training	109	133	24	22	0.62	\$16.50
27-1027	Set and exhibit designers	Bachelor's degree	61	78	17	28	0.75	\$19.80
27-1029	Designers, all other	Bachelor's degree	63	79	16	25	0.72	\$19.74
27-2011	Actors	Long-term on-the-job training	66	86	20	30	0.38	\$9.37
27-2012	Producers and directors	Bachelor's or higher degree, plus work experience	104	129	25	24	0.50	\$15.79
27-2021	Athletes and sports competitors	Long-term on-the-job training	33	42	9	27	0.48	\$9.95
27-2022	Coaches and scouts	Long-term on-the-job training	286	319	33	12	0.86	\$22.62

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
27-2023	Umpires, referees, and other sports officials	Long-term on-the-job training	33	42	9	27	0.46	\$8.04
27-2031	Dancers	Long-term on-the-job training	13	14	1	8	0.31	\$10.24
27-2032	Choreographers	Work experience in a related occupation	41	44	3	7	0.97	\$17.62
27-2041	Music directors and composers	Bachelor's or higher degree, plus work experience	190	233	43	23	0.70	\$6.09
27-2042	Musicians and singers	Long-term on-the-job training	310	347	37	12	0.86	\$8.31
27-2099	Entertainers and performers, sports and related workers, all other	Long-term on-the-job training	81	93	12	15	0.37	\$6.76
27-3011	Radio and television announcers	Long-term on-the-job training	152	160	8	5	1.58	\$11.80
27-3012	Public address system and other announcers	Long-term on-the-job training	18	24	6	33	0.46	\$10.98
27-3021	Broadcast news analysts	Bachelor's or higher degree, plus work experience	25	32	7	28	0.82	\$18.65
27-3022	Reporters and correspondents	Bachelor's or higher degree, plus work experience	53	56	3	6	0.47	\$20.51
27-3031	Public relations specialists	Bachelor's degree	332	391	59	18	0.76	\$20.87
27-3041	Editors	Bachelor's degree	181	188	7	4	0.71	\$25.32
27-3042	Technical writers	Bachelor's degree	86	110	24	28	0.88	\$21.82
27-3043	Writers and authors	Bachelor's degree	561	725	164	29	0.85	\$9.99
27-3091	Interpreters and translators	Long-term on-the-job training	197	209	12	6	0.84	\$18.47
27-3099	Media and communication workers, all other	Long-term on-the-job training	126	117	(9)	-7	0.57	\$16.01
27-4011	Audio and video equipment technicians	Long-term on-the-job training	83	118	35	42	1.04	\$18.38
27-4012	Broadcast technicians	Associate degree	74	90	16	22	1.12	\$9.91
27-4013	Radio operators	Moderate-term on-the-job training	5	5	--			

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
27-4014	Sound engineering technicians	Postsecondary vocational award	49	66	17	35	1.47	\$9.00
27-4021	Photographers	Long-term on-the-job training	834	809	(25)	-3	0.67	\$13.03
27-4031	Camera operators, television, video, and motion picture	Moderate-term on-the-job training	16	23	7	44	0.32	\$19.22
27-4032	Film and video editors	Bachelor's degree	10	15	--			
27-4099	Media and communication equipment workers, all other	Moderate-term on-the-job training	30	37	7	23	0.75	\$21.53
29-1011	Chiropractors	First professional degree	81	107	26	32	0.82	\$30.52
29-1021	Dentists, general	First professional degree	70	85	15	21	0.41	\$70.02
29-1022	Oral and maxillofacial surgeons	First professional degree	14	19	5	36	0.50	\$125.57
29-1023	Orthodontists	First professional degree	45	55	10	22	1.70	\$70.43
29-1024	Prosthodontists	First professional degree	11	16	5	45	0.58	\$137.58
29-1029	Dentists, all other specialists	First professional degree	12	17	5	42	0.49	\$123.92
29-1031	Dietitians and nutritionists	Bachelor's Degree	119	133	14	12	1.00	\$22.86
29-1041	Optometrists	First professional degree	49	56	7	14	0.60	\$33.72
29-1051	Pharmacists	First professional degree	468	678	210	45	1.13	\$52.49
29-1069	Physicians and surgeons	First professional degree	1,139	1,300	161	14	0.81	\$106.09
29-1071	Physician assistants	Bachelor's degree	56	71	15	27	0.50	\$40.40
29-1081	Podiatrists	First professional degree	42	47	5	12	0.68	\$36.46
29-1111	Registered nurses	Associate degree	3,944	4,969	1,025	26	0.94	\$30.11
29-1121	Audiologists	First professional degree	23	27	4	17	0.75	\$28.34
29-1122	Occupational therapists	Master's degree	155	208	53	34	0.88	\$35.05
29-1123	Physical therapists	Master's degree	285	406	121	42	0.87	\$34.18
29-1124	Radiation therapists	Associate Degree	15	20	5	33	0.62	\$42.15
29-1125	Recreational therapists	Bachelor's degree	40	43	3	8	0.93	\$13.60
29-1126	Respiratory therapists	Associate degree	173	218	45	26	1.01	\$31.49
29-1127	Speech-language pathologists	Master's degree	155	192	37	24	0.71	\$23.33
29-1129	Therapists, all other	Bachelor's degree	49	56	7	14	0.52	\$20.88
29-1131	Veterinarians	First professional degree	109	156	47	43	0.95	\$47.05
29-1199	Health diagnosing and treating practitioners, all other	Bachelor's degree	136	159	23	17	0.82	\$26.47
29-2011	Medical and clinical laboratory technologists	Bachelor's degree	234	313	79	34	0.83	\$21.83
29-2012	Medical and clinical laboratory technicians	Associate degree	289	363	74	26	1.13	\$15.09
29-2021	Dental hygienists	Associate degree	187	264	77	41	0.64	\$24.73



SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
29-2031	Cardiovascular technologists and technicians	Associate degree	100	133	33	33	1.30	\$23.16
29-2032	Diagnostic medical sonographers	Associate degree	69	88	19	28	0.88	\$36.66
29-2033	Nuclear medicine technologists	Associate degree	35	41	6	17	0.99	\$30.75
29-2034	Radiologic technologists and technicians	Associate degree	341	418	77	23	1.02	\$23.47
29-2041	Emergency medical technicians and paramedics	Postsecondary vocational award	333	410	77	23	0.98	\$15.42
29-2051	Dietetic technicians	Moderate-term on-the-job training	50	59	9	18	1.18	\$15.61
29-2052	Pharmacy technicians	Moderate-term on-the-job training	591	802	211	36	1.22	\$11.97
29-2053	Psychiatric technicians	Moderate-term on-the-job training	21	23	2	10	0.21	\$15.05
29-2054	Respiratory therapy technicians	Associate degree	47	50	3	6	1.42	\$16.25
29-2055	Surgical technologists	Postsecondary vocational award	341	440	99	29	2.36	\$16.57
29-2056	Veterinary technologists and technicians	Associate degree	104	153	49	47	0.86	\$13.76
29-2061	Licensed practical and licensed vocational nurses	Postsecondary vocational award	945	1,189	244	26	0.75	\$21.12
29-2071	Medical records and health information technicians	Associate degree	254	304	50	20	0.88	\$12.39
29-2081	Opticians, dispensing	Long-term on-the-job training	199	223	24	12	1.41	\$12.00
29-2091	Orthotists and prosthetists	Bachelor's degree	65	82	17	26	2.91	\$32.70
29-2099	Healthcare technologists and technicians, all other	Postsecondary vocational award	73	86	13	18	0.52	\$19.52
29-9011	Occupational health and safety specialists	Bachelor's degree	51	60	9	18	0.68	\$19.44
29-9012	Occupational health and safety technicians	Postsecondary vocational award	20	24	4	20	1.07	\$22.20
29-9091	Athletic trainers	Bachelor's degree	103	125	22	21	3.68	\$45.33
29-9099	Healthcare practitioners and technical workers, all other	Postsecondary vocational award	14	17	3	21	0.15	\$18.83
31-1011	Home health aides	Short-term on-the-job training	974	1,371	397	41	0.68	\$9.03
31-1012	Nursing aides, orderlies, and attendants	Postsecondary vocational award	1,940	2,375	435	22	0.77	\$10.15



SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
31-1013	Psychiatric aides	Short-term on-the-job training	80	90	10	13	0.37	\$13.18
31-2011	Occupational therapist assistants	Associate degree	82	115	33	40	2.01	\$16.93
31-2012	Occupational therapist aides	Short-term on-the-job training	20	27	7	35	1.48	\$10.62
31-2021	Physical therapist assistants	Associate degree	113	168	55	49	1.11	\$20.35
31-2022	Physical therapist aides	Short-term on-the-job training	15	22	7	47	0.19	\$10.78
31-9011	Massage therapists	Postsecondary vocational award	113	91	(22)	-19	0.68	\$9.91
31-9091	Dental assistants	Moderate-term on-the-job training	412	580	168	41	0.86	\$13.85
31-9092	Medical assistants	Moderate-term on-the-job training	1,006	1,358	352	35	1.39	\$13.64
31-9093	Medical equipment preparers	Short-term on-the-job training	47	60	13	28	0.52	\$17.76
31-9094	Medical transcriptionists	Postsecondary vocational award	195	226	31	16	1.15	\$15.63
31-9095	Pharmacy aides	Short-term on-the-job training	56	64	8	14	0.55	\$14.91
31-9096	Veterinary assistants and laboratory animal caretakers	Short-term on-the-job training	185	228	43	23	1.31	\$11.11
31-9099	Healthcare support workers, all other	Short-term on-the-job training	189	233	44	23	0.55	\$12.95
33-1011	First-line supervisors/managers of correctional officers	Work experience in a related occupation	22	30	8	36	0.35	\$27.30
33-1012	First-line supervisors/managers of police and detectives	Work experience in a related occupation	85	100	15	18	0.56	\$22.25
33-1021	First-line supervisors/managers of fire fighting and prevention workers	Work experience in a related occupation	80	95	15	19	0.94	\$22.69
33-1099	First-line supervisors/managers, protective service workers, all other	Work experience in a related occupation	41	48	7	17	0.48	\$14.67
33-2011	Fire fighters	Long-term on-the-job training	396	474	78	20	0.82	\$16.03
33-2021	Fire inspectors and investigators	Work experience in a related occupation	29	34	5	17	1.27	\$15.31

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
33-2022	Forest fire inspectors and prevention specialists	Work experience in a related occupation	5	5	--			
33-3011	Bailiffs	Moderate-term on-the-job training	25	29	4	16	0.82	\$12.45
33-3012	Correctional officers and jailers	Moderate-term on-the-job training	333	485	152	46	0.47	\$12.28
33-3021	Detectives and criminal investigators	Work experience in a related occupation	91	118	27	30	0.53	\$21.55
33-3031	Fish and game wardens	Associate degree	0	0	--			
33-3041	Parking enforcement workers	Short-term on-the-job training	14	17	3	21	0.85	\$13.11
33-3051	Police and sheriff's patrol officers	Long-term on-the-job training	795	942	147	18	0.74	\$17.09
33-3052	Transit and railroad police	Long-term on-the-job training	5	5	--			
33-9011	Animal control workers	Moderate-term on-the-job training	20	25	5	25	0.82	\$18.14
33-9021	Private detectives and investigators	Work experience in a related occupation	93	106	13	14	0.83	\$12.82
33-9031	Gaming surveillance officers and gaming investigators	Moderate-term on-the-job training	21	26	5	24	0.71	\$10.09
33-9032	Security guards	Short-term on-the-job training	905	979	74	8	0.52	\$12.22
33-9091	Crossing guards	Short-term on-the-job training	45	48	3	7	0.40	\$12.09
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	Short-term on-the-job training	126	148	22	17	0.66	\$7.82
33-9099	Protective service workers, all other	Short-term on-the-job training	59	75	16	27	0.42	\$14.88
35-1011	Chefs and head cooks	Work experience in a related occupation	299	321	22	7	1.34	\$14.95
35-1012	First-line supervisors/managers of food preparation and serving workers	Work experience in a related occupation	1,515	1,772	257	17	1.02	\$13.08
35-2011	Cooks, fast food	Short-term on-the-job training	1,690	1,984	294	17	1.55	\$7.64
35-2012	Cooks, institution and cafeteria	Moderate-term on-the-job training	637	768	131	21	0.93	\$9.77

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
35-2013	Cooks, private household	Long-term on-the-job training	13	18	5	38	0.64	\$31.83
35-2014	Cooks, restaurant	Long-term on-the-job training	1,233	1,376	143	12	0.85	\$9.52
35-2015	Cooks, short order	Short-term on-the-job training	373	388	15	4	1.06	\$9.20
35-2019	Cooks, all other	Moderate-term on-the-job training	24	28	4	17	0.58	\$23.08
35-2021	Food preparation workers	Short-term on-the-job training	1,323	1,594	271	20	0.86	\$8.87
35-3011	Bartenders	Short-term on-the-job training	489	487	(2)	0	0.55	\$8.04
35-3021	Combined food preparation and serving workers, including fast food	Short-term on-the-job training	3,995	5,094	1,099	28	0.94	\$7.26
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	Short-term on-the-job training	1,196	1,347	151	13	1.30	\$7.03
35-3031	Waiters and waitresses	Short-term on-the-job training	4,257	4,693	436	10	1.05	\$6.85
35-3041	Food servers, nonrestaurant	Short-term on-the-job training	900	1,038	138	15	2.81	\$8.20
35-9011	Dining room and cafeteria attendants and bartender helpers	Short-term on-the-job training	558	616	58	10	0.79	\$7.10
35-9021	Dishwashers	Short-term on-the-job training	894	980	86	10	1.01	\$7.32
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	Short-term on-the-job training	563	625	62	11	0.94	\$7.39
35-9099	Food preparation and serving related workers, all other	Short-term on-the-job training	5	10	--			
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	Work experience in a related occupation	734	846	112	15	1.14	\$11.19
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	Work experience in a related occupation	301	390	89	30	1.17	\$14.42
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	Short-term on-the-job training	3,885	4,210	325	8	1.02	\$8.12
37-2012	Maids and housekeeping cleaners	Short-term on-the-job training	1,764	2,211	447	25	0.57	\$8.41

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
37-2019	Building cleaning workers, all other	Short-term on-the-job training	733	948	215	29	0.86	\$9.74
37-2021	Pest control workers	Moderate-term on-the-job training	300	346	46	15	1.83	\$12.82
37-3011	Landscaping and groundskeeping workers	Short-term on-the-job training	1,737	2,236	499	29	0.99	\$10.16
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	Moderate-term on-the-job training	170	239	69	41	0.95	\$8.58
37-3013	Tree trimmers and pruners	Short-term on-the-job training	162	229	67	41	0.90	\$8.64
37-3019	Grounds maintenance workers, all other	Short-term on-the-job training	286	384	98	34	1.67	\$8.45
39-1011	Gaming supervisors	Work experience in a related occupation	26	34	8	31	0.36	\$9.03
39-1012	Slot key persons	Postsecondary vocational award	26	34	8	31	0.46	\$8.82
39-1021	First-line supervisors/managers of personal service workers	Work experience in a related occupation	341	324	(17)	-5	0.84	\$10.09
39-2011	Animal trainers	Moderate-term on-the-job training	94	76	(18)	-19	0.58	\$6.64
39-2021	Nonfarm animal caretakers	Short-term on-the-job training	557	390	(167)	-30	0.89	\$6.44
39-3011	Gaming dealers	Postsecondary vocational award	15	18	3	20	0.11	\$7.69
39-3012	Gaming and sports book writers and runners	Short-term on-the-job training	41	49	8	20	1.21	\$8.51
39-3019	Gaming service workers, all other	Moderate-term on-the-job training	5	5	--			
39-3021	Motion picture projectionists	Short-term on-the-job training	5	5	--			
39-3031	Ushers, lobby attendants, and ticket takers	Short-term on-the-job training	121	137	16	13	0.68	\$6.68
39-3091	Amusement and recreation attendants	Short-term on-the-job training	201	207	6	3	0.49	\$7.12
39-3092	Costume attendants	Short-term on-the-job training	5	5	--			

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
39-3093	Locker room, coatroom, and dressing room attendants	Short-term on-the-job training	13	15	2	15	0.36	\$9.21
39-3099	Entertainment attendants and related workers, all other	Moderate-term on-the-job training	19	22	3	16	0.25	\$7.54
39-4011	Embalmers	Postsecondary vocational award	0	0	--			
39-4021	Funeral attendants	Short-term on-the-job training	97	97	0	0	1.72	\$10.21
39-5011	Barbers	Postsecondary vocational award	80	49	(31)	-39	0.95	\$8.18
39-5012	Hairdressers, hairstylists, and cosmetologists	Postsecondary vocational award	1,207	1,176	(31)	-3	1.25	\$10.29
39-5091	Makeup artists, theatrical and performance	Postsecondary vocational award	24	15	(9)	-38	0.97	\$7.16
39-5092	Manicurists and pedicurists	Postsecondary vocational award	43	40	(3)	-7	0.41	\$8.76
39-5093	Shampooers	Short-term on-the-job training	25	17	(8)	-32	0.50	\$7.56
39-5094	Skin care specialists	Postsecondary vocational award	34	31	(3)	-9	0.57	\$9.06
39-6011	Baggage porters and bellhops	Short-term on-the-job training	40	45	5	13	0.47	\$7.53
39-6012	Concierges	Moderate-term on-the-job training	12	14	2	17	0.34	\$9.81
39-6021	Tour guides and escorts	Moderate-term on-the-job training	30	34	4	13	0.43	\$11.42
39-6022	Travel guides	Moderate-term on-the-job training	14	18	4	29	0.58	\$15.63
39-6031	Flight attendants	Long-term on-the-job training	33	57	24	73	0.20	\$20.72
39-6032	Transportation attendants, except flight attendants and baggage porters	Short-term on-the-job training	5	5	--			
39-9011	Child care workers	Short-term on-the-job training	1,544	1,704	160	10	0.56	\$7.05
39-9021	Personal and home care aides	Short-term on-the-job training	865	1,250	385	45	0.60	\$9.95

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
39-9031	Fitness trainers and aerobics instructors	Postsecondary vocational award	641	737	96	15	1.43	\$10.50
39-9032	Recreation workers	Short-term on-the-job training	314	369	55	18	0.56	\$11.47
39-9041	Residential advisors	Moderate-term on-the-job training	78	88	10	13	0.86	\$11.87
39-9099	Personal care and service workers, all other	Short-term on-the-job training	141	83	(58)	-41	0.70	\$6.89
41-1011	First-line supervisors/managers of retail sales workers	Work experience in a related occupation	3,957	4,481	524	13	1.02	\$20.25
41-1012	First-line supervisors/managers of non-retail sales workers	Work experience in a related occupation	1,586	1,828	242	15	0.99	\$32.94
41-2011	Cashiers, except gaming	Short-term on-the-job training	7,002	7,271	269	4	1.13	\$7.69
41-2012	Gaming change persons and booth cashiers	Short-term on-the-job training	103	112	9	9	0.97	\$27.17
41-2021	Counter and rental clerks	Short-term on-the-job training	1,303	1,554	251	19	1.56	\$8.85
41-2022	Parts salespersons	Moderate-term on-the-job training	570	560	(10)	-2	1.36	\$11.63
41-2031	Retail salespersons	Short-term on-the-job training	10,918	13,439	2,521	23	1.27	\$10.01
41-3011	Advertising sales agents	Moderate-term on-the-job training	449	515	66	15	1.17	\$20.86
41-3021	Insurance sales agents	Bachelor's degree	1,266	1,385	119	9	1.00	\$18.68
41-3031	Securities, commodities, and financial services sales agents	Bachelor's degree	729	958	229	31	0.63	\$22.56
41-3041	Travel agents	Postsecondary vocational award	164	115	(49)	-30	0.82	\$15.96
41-3099	Sales representatives, services, all other	Moderate-term on-the-job training	684	871	187	27	0.56	\$23.54
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	Moderate-term on-the-job training	1,318	1,526	208	16	1.46	\$47.27
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	Moderate-term on-the-job training	3,890	4,082	192	5	1.39	\$26.86

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
41-9011	Demonstrators and product promoters	Moderate-term on-the-job training	186	228	42	23	0.86	\$10.63
41-9012	Models	Moderate-term on-the-job training	57	67	10	18	0.84	\$6.49
41-9021	Real estate brokers	Work experience in a related occupation	2,873	4,088	1,215	42	0.97	\$15.00
41-9022	Real estate sales agents	Postsecondary vocational award	2,931	4,159	1,228	42	0.92	\$13.48
41-9031	Sales engineers	Bachelor's degree	185	203	18	10	1.39	\$39.52
41-9041	Telemarketers	Short-term on-the-job training	791	818	27	3	1.10	\$11.04
41-9091	Door-to-door sales workers, news and street vendors, and related workers	Short-term on-the-job training	1,472	1,761	289	20	0.77	\$6.07
41-9099	Sales and related workers, all other	Moderate-term on-the-job training	345	398	53	15	0.57	\$12.57
43-1011	First-line supervisors/managers of office and administrative support workers	Work experience in a related occupation	2,453	2,676	223	9	0.94	\$20.14
43-2011	Switchboard operators, including answering service	Short-term on-the-job training	577	556	(21)	-4	1.86	\$11.07
43-2021	Telephone operators	Short-term on-the-job training	60	39	(21)	-35	1.10	\$18.29
43-2099	Communications equipment operators, all other	Short-term on-the-job training	5	5	--			
43-3011	Bill and account collectors	Short-term on-the-job training	981	1,325	344	35	1.30	\$14.15
43-3021	Billing and posting clerks and machine operators	Moderate-term on-the-job training	923	955	32	3	0.99	\$15.11
43-3031	Bookkeeping, accounting, and auditing clerks	Moderate-term on-the-job training	3,109	3,563	454	15	0.82	\$15.37
43-3041	Gaming cage workers	Short-term on-the-job training	5	5	--			
43-3051	Payroll and timekeeping clerks	Moderate-term on-the-job training	417	439	22	5	1.13	\$14.65
43-3061	Procurement clerks	Short-term on-the-job training	197	202	5	3	1.49	\$13.16
43-3071	Tellers	Short-term on-the-job training	1,257	1,395	138	11	1.18	\$14.03

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
43-4011	Brokerage clerks	Moderate-term on-the-job training	97	90	(7)	-7	0.73	\$16.06
43-4021	Correspondence clerks	Short-term on-the-job training	14	15	1	7	0.46	\$15.37
43-4031	Court, municipal, and license clerks	Short-term on-the-job training	57	67	10	18	0.31	\$15.84
43-4041	Credit authorizers, checkers, and clerks	Short-term on-the-job training	131	122	(9)	-7	1.08	\$14.98
43-4051	Customer service representatives	Moderate-term on-the-job training	5,606	7,128	1,522	27	1.47	\$14.25
43-4061	Eligibility interviewers, government programs	Moderate-term on-the-job training	15	16	1	7	0.08	\$16.92
43-4071	File clerks	Short-term on-the-job training	466	312	(154)	-33	1.08	\$10.43
43-4081	Hotel, motel, and resort desk clerks	Short-term on-the-job training	314	380	66	21	0.83	\$9.61
43-4111	Interviewers, except eligibility and loan	Short-term on-the-job training	163	192	29	18	0.40	\$11.23
43-4121	Library assistants, clerical	Short-term on-the-job training	116	141	25	22	0.63	\$11.07
43-4131	Loan interviewers and clerks	Short-term on-the-job training	230	220	(10)	-4	0.49	\$21.19
43-4141	New accounts clerks	Work experience in a related occupation	109	88	(21)	-19	0.75	\$19.80
43-4151	Order clerks	Short-term on-the-job training	598	444	(154)	-26	1.25	\$13.46
43-4161	Human resources assistants, except payroll and timekeeping	Short-term on-the-job training	267	308	41	15	0.95	\$15.88
43-4171	Receptionists and information clerks	Short-term on-the-job training	1,902	2,213	311	16	0.95	\$11.27
43-4181	Reservation and transportation ticket agents and travel clerks	Short-term on-the-job training	64	73	9	14	0.22	\$15.09
43-4199	Information and record clerks, all other	Short-term on-the-job training	118	113	(5)	-4	0.29	\$14.98
43-5011	Cargo and freight agents	Moderate-term on-the-job training	40	50	10	25	0.27	\$16.60



SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
43-5021	Couriers and messengers	Short-term on-the-job training	407	525	118	29	0.75	\$14.63
43-5031	Police, fire, and ambulance dispatchers	Moderate-term on-the-job training	142	171	29	20	0.84	\$14.20
43-5032	Dispatchers, except police, fire, and ambulance	Moderate-term on-the-job training	268	274	6	2	0.81	\$18.31
43-5041	Meter readers, utilities	Short-term on-the-job training	39	36	(3)	-8	0.48	\$18.71
43-5051	Postal service clerks	Short-term on-the-job training	110	118	8	7	0.80	\$22.31
43-5052	Postal service mail carriers	Short-term on-the-job training	532	572	40	8	0.91	\$21.80
43-5053	Postal service mail sorters, processors, and processing machine operators	Short-term on-the-job training	332	324	(8)	-2	0.93	\$21.62
43-5061	Production, planning, and expediting clerks	Short-term on-the-job training	734	825	91	12	1.45	\$18.33
43-5071	Shipping, receiving, and traffic clerks	Short-term on-the-job training	1,406	1,513	107	8	1.05	\$12.63
43-5081	Stock clerks and order fillers	Short-term on-the-job training	3,128	2,994	(134)	-4	1.03	\$10.87
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	Short-term on-the-job training	201	186	(15)	-7	1.43	\$11.82
43-6011	Executive secretaries and administrative assistants	Moderate-term on-the-job training	2,326	2,697	371	16	0.83	\$17.60
43-6012	Legal secretaries	Postsecondary vocational award	666	759	93	14	1.05	\$19.65
43-6013	Medical secretaries	Postsecondary vocational award	826	1,007	181	22	0.98	\$15.84
43-6014	Secretaries, except legal, medical, and executive	Moderate-term on-the-job training	4,100	4,247	147	4	1.22	\$13.97
43-9011	Computer operators	Moderate-term on-the-job training	251	204	(47)	-19	1.08	\$17.10
43-9021	Data entry keyers	Moderate-term on-the-job training	633	660	27	4	1.04	\$12.82
43-9022	Word processors and typists	Moderate-term on-the-job training	121	136	15	12	0.36	\$14.57

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
43-9031	Desktop publishers	Postsecondary vocational award	110	120	10	9	1.33	\$17.16
43-9041	Insurance claims and policy processing clerks	Moderate-term on-the-job training	319	265	(54)	-17	0.69	\$18.47
43-9051	Mail clerks and mail machine operators, except postal service	Short-term on-the-job training	238	245	7	3	0.87	\$12.99
43-9061	Office clerks, general	Short-term on-the-job training	5,614	6,424	810	14	1.02	\$11.88
43-9071	Office machine operators, except computer	Short-term on-the-job training	23	27	4	17	0.14	\$16.30
43-9081	Proofreaders and copy markers	Short-term on-the-job training	25	27	2	8	0.69	\$15.28
43-9111	Statistical assistants	Moderate-term on-the-job training	5	5	--			
43-9199	Office and administrative support workers, all other	Short-term on-the-job training	128	136	8	6	0.24	\$17.85
45-1099	Supervisors, farming, fishing, and forestry workers	Work experience in a related occupation	39	52	13	33	0.53	\$18.49
45-2011	Agricultural inspectors	Work experience in a related occupation	5	5	--			
45-2021	Animal breeders	Short-term on-the-job training	5	5	--			
45-2041	Graders and sorters, agricultural products	Work experience in a related occupation	21	24	3	14	0.20	\$11.26
45-2091	Agricultural equipment operators	Moderate-term on-the-job training	5	5	--			
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	Short-term on-the-job training	70	97	27	39	0.14	\$11.68
45-2093	Farmworkers, farm and ranch animals	Short-term on-the-job training	11	15	4	36	0.12	\$12.35
45-2099	Agricultural workers, all other	Short-term on-the-job training	19	26	7	37	0.79	\$12.64
45-3011	Fishers and related fishing workers	Moderate-term on-the-job training	26	24	(2)	-8	0.15	\$5.99
45-4011	Forest and conservation workers	Moderate-term on-the-job training	5	12	--			

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
45-4021	Fallers	Moderate-term on-the-job training	26	28	2	8	0.66	\$16.55
45-4022	Logging equipment operators	Moderate-term on-the-job training	29	31	2	7	0.38	\$16.06
45-4023	Log graders and scalers	Moderate-term on-the-job training	22	28	6	27	0.65	\$17.25
45-4029	Logging workers, all other	Moderate-term on-the-job training	20	26	6	30	0.55	\$17.34
47-1011	First-line supervisors/managers of construction trades and extraction workers	Work experience in a related occupation	2,076	2,377	301	14	1.10	\$22.92
47-2011	Boilermakers	Long-term on-the-job training	11	15	4	36	0.38	\$26.43
47-2021	Brickmasons and blockmasons	Long-term on-the-job training	163	195	32	20	0.58	\$21.20
47-2022	Stonemasons	Long-term on-the-job training	62	74	12	19	0.65	\$25.35
47-2031	Carpenters	Long-term on-the-job training	3,192	3,633	441	14	1.04	\$18.86
47-2041	Carpet installers	Moderate-term on-the-job training	58	70	12	21	0.50	\$23.10
47-2042	Floor layers, except carpet, wood, and hard tiles	Moderate-term on-the-job training	58	67	9	16	0.77	\$22.44
47-2043	Floor sanders and finishers	Moderate-term on-the-job training	50	58	8	16	0.80	\$23.68
47-2044	Tile and marble setters	Long-term on-the-job training	137	167	30	22	0.97	\$21.62
47-2051	Cement masons and concrete finishers	Moderate-term on-the-job training	294	363	69	23	0.71	\$16.16
47-2053	Terrazzo workers and finishers	Long-term on-the-job training	15	18	3	20	0.56	\$23.90
47-2061	Construction laborers	Moderate-term on-the-job training	2,133	2,551	418	20	0.86	\$15.19
47-2071	Paving, surfacing, and tamping equipment operators	Moderate-term on-the-job training	83	97	14	17	0.73	\$13.12
47-2072	Pile-driver operators	Moderate-term on-the-job training	42	52	10	24	0.77	\$23.60

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
47-2073	Operating engineers and other construction equipment operators	Moderate-term on-the-job training	844	1,048	204	24	1.14	\$15.03
47-2081	Drywall and ceiling tile installers	Moderate-term on-the-job training	187	187	0	0	0.58	\$18.65
47-2082	Tapers	Moderate-term on-the-job training	65	75	10	15	0.48	\$24.74
47-2111	Electricians	Long-term on-the-job training	1,422	1,355	(67)	-5	1.10	\$18.01
47-2121	Glaziers	Long-term on-the-job training	61	66	5	8	0.58	\$16.46
47-2131	Insulation workers, floor, ceiling, and wall	Moderate-term on-the-job training	35	34	(1)	-3	0.59	\$15.30
47-2132	Insulation workers, mechanical	Moderate-term on-the-job training	119	152	33	28	2.29	\$11.69
47-2141	Painters, construction and maintenance	Moderate-term on-the-job training	897	986	89	10	0.90	\$19.40
47-2142	Paperhangers	Moderate-term on-the-job training	26	28	2	8	0.80	\$23.56
47-2151	Pipelayers	Moderate-term on-the-job training	191	232	41	21	0.96	\$19.29
47-2152	Plumbers, pipefitters, and steamfitters	Long-term on-the-job training	665	782	117	18	0.76	\$18.50
47-2161	Plasterers and stucco masons	Long-term on-the-job training	47	50	3	6	0.42	\$19.37
47-2171	Reinforcing iron and rebar workers	Long-term on-the-job training	22	25	3	14	0.40	\$17.90
47-2181	Roofers	Moderate-term on-the-job training	314	285	(29)	-9	0.93	\$16.85
47-2211	Sheet metal workers	Long-term on-the-job training	453	485	32	7	1.33	\$16.09
47-2221	Structural iron and steel workers	Long-term on-the-job training	59	68	9	15	0.46	\$22.46
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	Short-term on-the-job training	88	106	18	20	0.75	\$14.65
47-3012	Helpers, carpenters	Short-term on-the-job training	308	333	25	8	1.61	\$11.69

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
47-3013	Helpers, electricians	Short-term on-the-job training	417	347	(70)	-17	2.27	\$11.23
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons	Short-term on-the-job training	160	143	(17)	-11	3.56	\$11.60
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	Short-term on-the-job training	173	199	26	15	1.17	\$11.15
47-3016	Helpers, roofers	Short-term on-the-job training	34	24	(10)	-29	0.83	\$11.64
47-3019	Helpers, construction trades, all other	Short-term on-the-job training	33	39	6	18	0.51	\$12.51
47-4011	Construction and building inspectors	Work experience in a related occupation	160	193	33	21	0.73	\$27.41
47-4021	Elevator installers and repairers	Long-term on-the-job training	21	27	6	29	0.52	\$27.59
47-4031	Fence erectors	Moderate-term on-the-job training	36	44	8	22	0.60	\$18.71
47-4041	Hazardous materials removal workers	Moderate-term on-the-job training	72	93	21	29	1.04	\$16.58
47-4051	Highway maintenance workers	Moderate-term on-the-job training	57	67	10	18	0.24	\$15.18
47-4061	Rail-track laying and maintenance equipment operators	Moderate-term on-the-job training	10	15	--			
47-4071	Septic tank servicers and sewer pipe cleaners	Moderate-term on-the-job training	45	52	7	16	1.00	\$14.33
47-4091	Segmental pavers	Moderate-term on-the-job training	14	17	3	21	1.49	\$20.37
47-4099	Construction and related workers, all other	Moderate-term on-the-job training	19	21	2	11	0.18	\$19.55
47-5011	Derrick operators, oil and gas	Moderate-term on-the-job training	5	5	--			
47-5012	Rotary drill operators, oil and gas	Moderate-term on-the-job training	5	5	--			
47-5013	Service unit operators, oil, gas, and mining	Moderate-term on-the-job training	5	5	--			
47-5021	Earth drillers, except oil and gas	Moderate-term on-the-job training	18	21	3	17	0.39	\$21.82

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
47-5031	Explosives workers, ordnance handling experts, and blasters	Moderate-term on-the-job training	5	5	--			
47-5041	Continuous mining machine operators	Moderate-term on-the-job training	5	13	--			
47-5042	Mine cutting and channeling machine operators	Moderate-term on-the-job training	5	5	--			
47-5049	Mining machine operators, all other	Moderate-term on-the-job training	5	10	--			
47-5051	Rock splitters, quarry	Moderate-term on-the-job training	5	5	--			
47-5061	Roof bolters, mining	Moderate-term on-the-job training	5	5	--			
47-5071	Roustabouts, oil and gas	Moderate-term on-the-job training	5	5	--			
47-5081	Helpers, extraction workers	Short-term on-the-job training	5	5	--			
47-5099	Extraction workers, all other	Moderate-term on-the-job training	5	5	--			
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	Work experience in a related occupation	872	962	90	10	1.08	\$24.11
49-2011	Computer, automated teller, and office machine repairers	Postsecondary vocational award	473	551	78	16	1.44	\$18.22
49-2021	Radio mechanics	Postsecondary vocational award	24	25	1	4	1.31	\$19.64
49-2022	Telecommunications equipment installers and repairers, except line installers	Long-term on-the-job training	360	377	17	5	0.96	\$22.58
49-2091	Avionics technicians	Postsecondary vocational award	186	204	18	10	7.17	\$20.57
49-2092	Electric motor, power tool, and related repairers	Postsecondary vocational award	198	184	(14)	-7	4.64	\$13.87
49-2093	Electrical and electronics installers and repairers, transportation equipment	Postsecondary vocational award	57	62	5	9	1.68	\$25.90
49-2094	Electrical and electronics repairers, commercial and industrial equipment	Postsecondary vocational award	87	100	13	15	0.64	\$20.47
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	Postsecondary vocational award	47	41	(6)	-13	1.23	\$31.18

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
49-2096	Electronic equipment installers and repairers, motor vehicles	Postsecondary vocational award	66	65	(1)	-2	1.87	\$14.68
49-2097	Electronic home entertainment equipment installers and repairers	Postsecondary vocational award	142	136	(6)	-4	1.41	\$17.91
49-2098	Security and fire alarm systems installers	Postsecondary vocational award	245	277	32	13	2.25	\$14.36
49-3011	Aircraft mechanics and service technicians	Postsecondary vocational award	210	260	50	24	0.97	\$22.11
49-3021	Automotive body and related repairers	Long-term on-the-job training	235	250	15	6	0.69	\$17.33
49-3022	Automotive glass installers and repairers	Long-term on-the-job training	55	53	(2)	-4	1.37	\$14.20
49-3023	Automotive service technicians and mechanics	Postsecondary vocational award	1,551	1,844	293	19	1.06	\$15.53
49-3031	Bus and truck mechanics and diesel engine specialists	Postsecondary vocational award	403	455	52	13	0.83	\$16.91
49-3041	Farm equipment mechanics	Postsecondary vocational award	19	24	5	26	0.32	\$19.80
49-3042	Mobile heavy equipment mechanics, except engines	Postsecondary vocational award	415	484	69	17	1.93	\$19.94
49-3043	Rail car repairers	Long-term on-the-job training	18	22	4	22	0.39	\$21.44
49-3051	Motorboat mechanics	Long-term on-the-job training	39	48	9	23	0.74	\$13.50
49-3052	Motorcycle mechanics	Long-term on-the-job training	57	69	12	21	1.15	\$13.92
49-3053	Outdoor power equipment and other small engine mechanics	Moderate-term on-the-job training	74	83	9	12	1.16	\$12.57
49-3091	Bicycle repairers	Moderate-term on-the-job training	17	13	(4)	-24	0.98	\$15.55
49-3092	Recreational vehicle service technicians	Long-term on-the-job training	27	32	5	19	1.02	\$18.89
49-3093	Tire repairers and changers	Short-term on-the-job training	329	412	83	25	1.83	\$15.43
49-9011	Mechanical door repairers	Moderate-term on-the-job training	29	35	6	21	1.14	\$16.71

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49-9012	Control and valve installers and repairers, except mechanical door	Moderate-term on-the-job training	177	195	18	10	2.43	\$27.22
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	Long-term on-the-job training	703	816	113	16	1.22	\$19.49
49-9031	Home appliance repairers	Long-term on-the-job training	194	194	0	0	1.32	\$11.13
49-9041	Industrial machinery mechanics	Long-term on-the-job training	694	798	104	15	1.56	\$18.92
49-9042	Maintenance and repair workers, general	Moderate-term on-the-job training	2,744	3,339	595	22	1.15	\$15.30
49-9043	Maintenance workers, machinery	Short-term on-the-job training	311	324	13	4	2.21	\$17.95
49-9044	Millwrights	Long-term on-the-job training	61	80	19	31	0.65	\$18.80
49-9045	Refractory materials repairers, except brickmasons	Moderate-term on-the-job training	15	20	5	33	0.94	\$33.69
49-9051	Electrical power-line installers and repairers	Long-term on-the-job training	266	265	(1)	0	1.35	\$26.82
49-9052	Telecommunications line installers and repairers	Long-term on-the-job training	312	289	(23)	-7	0.99	\$23.58
49-9061	Camera and photographic equipment repairers	Moderate-term on-the-job training	20	26	6	30	0.94	\$9.00
49-9062	Medical equipment repairers	Associate degree	60	85	25	42	0.86	\$13.11
49-9063	Musical instrument repairers and tuners	Long-term on-the-job training	22	23	1	5	0.92	\$8.82
49-9064	Watch repairers	Long-term on-the-job training	19	23	4	21	0.94	\$8.47
49-9069	Precision instrument and equipment repairers, all other	Moderate-term on-the-job training	43	51	8	19	1.15	\$18.97
49-9091	Coin, vending, and amusement machine servicers and repairers	Moderate-term on-the-job training	230	145	(85)	-37	1.98	\$11.32
49-9092	Commercial divers	Moderate-term on-the-job training	41	57	16	39	0.92	\$13.33
49-9093	Fabric menders, except garment	Moderate-term on-the-job training	44	52	8	18	1.04	\$13.27
49-9094	Locksmiths and safe repairers	Moderate-term on-the-job training	95	125	30	32	1.41	\$12.23



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49-9095	Manufactured building and mobile home installers	Moderate-term on-the-job training	28	28	0	0	1.21	\$17.73
49-9096	Riggers	Short-term on-the-job training	14	16	2	14	0.65	\$20.10
49-9097	Signal and track switch repairers	Moderate-term on-the-job training	47	60	13	28	0.94	\$16.76
49-9098	Helpers--Installation, maintenance, and repair workers	Short-term on-the-job training	428	473	45	11	1.54	\$11.31
49-9099	Installation, maintenance, and repair workers, all other	Moderate-term on-the-job training	148	172	24	16	0.56	\$15.25
51-1011	First-line supervisors/managers of production and operating workers	Work experience in a related occupation	1,666	1,737	71	4	1.35	\$28.20
51-2011	Aircraft structure, surfaces, rigging, and systems assemblers	Long-term on-the-job training	11	5	--			
51-2021	Coil winders, tapers, and finishers	Short-term on-the-job training	33	35	2	6	0.82	\$24.76
51-2022	Electrical and electronic equipment assemblers	Short-term on-the-job training	865	796	(69)	-8	2.28	\$15.02
51-2023	Electromechanical equipment assemblers	Short-term on-the-job training	28	30	2	7	0.28	\$21.38
51-2031	Engine and other machine assemblers	Short-term on-the-job training	152	199	47	31	1.98	\$16.61
51-2041	Structural metal fabricators and fitters	Moderate-term on-the-job training	143	161	18	13	0.81	\$16.07
51-2091	Fiberglass laminators and fabricators	Moderate-term on-the-job training	73	79	6	8	1.02	\$42.56
51-2092	Team assemblers	Moderate-term on-the-job training	3,399	3,949	550	16	1.54	\$13.55
51-2093	Timing device assemblers, adjusters, and calibrators	Moderate-term on-the-job training	11	13	2	18	0.63	\$154.81
51-2099	Assemblers and fabricators, all other	Moderate-term on-the-job training	606	652	46	8	1.15	\$13.92
51-3011	Bakers	Long-term on-the-job training	291	318	27	9	1.13	\$12.95
51-3021	Butchers and meat cutters	Long-term on-the-job training	262	285	23	9	1.15	\$13.79

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51-3022	Meat, poultry, and fish cutters and trimmers	Short-term on-the-job training	93	107	14	15	0.38	\$10.49
51-3023	Slaughterers and meat packers	Moderate-term on-the-job training	152	173	21	14	0.73	\$12.68
51-3091	Food and tobacco roasting, baking, and drying machine operators and tenders	Short-term on-the-job training	5	10	--			
51-3092	Food batchmakers	Short-term on-the-job training	36	41	5	14	0.23	\$11.84
51-3093	Food cooking machine operators and tenders	Short-term on-the-job training	39	39	0	0	0.52	\$14.64
51-4011	Computer-controlled machine tool operators, metal and plastic	Moderate-term on-the-job training	292	372	80	27	1.21	\$17.81
51-4012	Numerical tool and process control programmers	Long-term on-the-job training	20	24	4	20	0.64	\$23.35
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	455	494	39	9	2.77	\$12.30
51-4022	Forging machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	43	38	(5)	-12	0.77	\$18.55
51-4023	Rolling machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	66	72	6	9	1.09	\$18.26
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	532	567	35	7	1.11	\$12.82
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	112	120	8	7	1.50	\$15.27
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	573	626	53	9	3.26	\$18.32
51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	97	104	7	7	0.83	\$17.38
51-4035	Milling and planing machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	46	48	2	4	0.88	\$25.72
51-4041	Machinists	Long-term on-the-job training	1,497	1,747	250	17	2.24	\$15.98
51-4051	Metal-refining furnace operators and tenders	Moderate-term on-the-job training	5	14	--			

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
51-4052	Pourers and casters, metal	Moderate-term on-the-job training	5	5	--			
51-4061	Model makers, metal and plastic	Moderate-term on-the-job training	5	5	--			
51-4062	Patternmakers, metal and plastic	Moderate-term on-the-job training	5	5	--			
51-4071	Foundry mold and coremakers	Moderate-term on-the-job training	5	5	--			
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	695	707	12	2	2.51	\$13.99
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	249	319	70	28	1.50	\$15.58
51-4111	Tool and die makers	Long-term on-the-job training	255	291	36	14	1.49	\$23.72
51-4121	Welders, cutters, solderers, and brazers	Long-term on-the-job training	750	885	135	18	1.08	\$17.94
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	Moderate-term on-the-job training	380	484	104	27	3.08	\$24.42
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	86	96	10	12	1.81	\$14.63
51-4192	Lay-out workers, metal and plastic	Moderate-term on-the-job training	5	5	--			
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic	Moderate-term on-the-job training	195	197	2	1	2.72	\$12.24
51-4194	Tool grinders, filers, and sharpeners	Moderate-term on-the-job training	19	19	0	0	0.57	\$17.49
51-4199	Metal workers and plastic workers, all other	Moderate-term on-the-job training	24	22	(2)	-8	0.29	\$23.61
51-5011	Bindery workers	Short-term on-the-job training	217	216	(1)	0	1.87	\$7.34
51-5012	Bookbinders	Moderate-term on-the-job training	5	5	--			
51-5021	Job printers	Long-term on-the-job training	50	53	3	6	0.55	\$17.75
51-5022	Prepress technicians and workers	Postsecondary vocational award	106	97	(9)	-8	0.81	\$15.95

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
51-5023	Printing machine operators	Moderate-term on-the-job training	317	331	14	4	0.90	\$15.64
51-6011	Laundry and dry-cleaning workers	Moderate-term on-the-job training	439	509	70	16	0.94	\$9.47
51-6021	Pressers, textile, garment, and related materials	Short-term on-the-job training	204	208	4	2	1.48	\$9.36
51-6031	Sewing machine operators	Moderate-term on-the-job training	678	468	(210)	-31	1.55	\$19.26
51-6041	Shoe and leather workers and repairers	Long-term on-the-job training	25	33	8	32	0.60	\$6.62
51-6042	Shoe machine operators and tenders	Moderate-term on-the-job training	5	5	--			
51-6051	Sewers, hand	Short-term on-the-job training	105	140	35	33	0.85	\$9.40
51-6052	Tailors, dressmakers, and custom sewers	Long-term on-the-job training	108	148	40	37	0.68	\$9.33
51-6061	Textile bleaching and dyeing machine operators and tenders	Moderate-term on-the-job training	257	109	(148)	-58	6.95	\$13.66
51-6062	Textile cutting machine setters, operators, and tenders	Moderate-term on-the-job training	47	29	(18)	-38	1.32	\$11.07
51-6063	Textile knitting and weaving machine setters, operators, and tenders	Long-term on-the-job training	639	396	(243)	-38	8.46	\$16.69
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	Moderate-term on-the-job training	594	287	(307)	-52	7.17	\$11.05
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	Moderate-term on-the-job training	65	45	(20)	-31	2.06	\$18.22
51-6092	Fabric and apparel patternmakers	Long-term on-the-job training	14	5	--			
51-6093	Upholsterers	Long-term on-the-job training	98	130	32	33	0.57	\$7.54
51-6099	Textile, apparel, and furnishings workers, all other	Short-term on-the-job training	36	18	(18)	-50	0.86	\$14.01
51-7011	Cabinetmakers and bench carpenters	Long-term on-the-job training	295	401	106	36	1.13	\$14.94
51-7021	Furniture finishers	Long-term on-the-job training	34	47	13	38	0.43	\$7.46

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
51-7031	Model makers, wood	Long-term on-the-job training	5	5	--			
51-7032	Patternmakers, wood	Long-term on-the-job training	5	5	--			
51-7041	Sawing machine setters, operators, and tenders, wood	Moderate-term on-the-job training	50	61	11	22	0.42	\$11.79
51-7042	Woodworking machine setters, operators, and tenders, except sawing	Moderate-term on-the-job training	71	90	19	27	0.40	\$10.24
51-7099	Woodworkers, all other	Moderate-term on-the-job training	5	5	--			
51-8011	Nuclear power reactor operators	Long-term on-the-job training	5	5	--			
51-8012	Power distributors and dispatchers	Long-term on-the-job training	5	5	--			
51-8013	Power plant operators	Long-term on-the-job training	92	88	(4)	-4	1.55	\$33.60
51-8021	Stationary engineers and boiler operators	Long-term on-the-job training	40	49	9	23	0.54	\$21.92
51-8031	Water and liquid waste treatment plant and system operators	Long-term on-the-job training	123	148	25	20	0.68	\$18.05
51-8091	Chemical plant and system operators	Long-term on-the-job training	123	90	(33)	-27	1.33	\$25.67
51-8092	Gas plant operators	Long-term on-the-job training	15	15	0	0	0.72	\$27.01
51-8093	Petroleum pump system operators, refinery operators, and gaugers	Long-term on-the-job training	5	5	--			
51-8099	Plant and system operators, all other	Long-term on-the-job training	5	5	--			
51-9011	Chemical equipment operators and tenders	Moderate-term on-the-job training	553	514	(39)	-7	6.23	\$18.59
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	Moderate-term on-the-job training	93	98	5	5	1.24	\$12.32
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	Moderate-term on-the-job training	46	43	(3)	-7	0.63	\$11.65
51-9022	Grinding and polishing workers, hand	Moderate-term on-the-job training	47	53	6	13	0.61	\$12.04

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
51-9023	Mixing and blending machine setters, operators, and tenders	Moderate-term on-the-job training	470	415	(55)	-12	1.92	\$15.62
51-9031	Cutters and trimmers, hand	Short-term on-the-job training	116	109	(7)	-6	2.23	\$12.42
51-9032	Cutting and slicing machine setters, operators, and tenders	Moderate-term on-the-job training	150	140	(10)	-7	1.09	\$14.97
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	Moderate-term on-the-job training	499	443	(56)	-11	3.43	\$13.46
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	Moderate-term on-the-job training	95	83	(12)	-13	2.01	\$13.98
51-9061	Inspectors, testers, sorters, samplers, and weighers	Moderate-term on-the-job training	2,262	2,295	33	1	2.61	\$13.21
51-9071	Jewelers and precious stone and metal workers	Postsecondary vocational award	47	54	7	15	0.52	\$18.55
51-9081	Dental laboratory technicians	Long-term on-the-job training	80	129	49	61	0.95	\$17.28
51-9082	Medical appliance technicians	Long-term on-the-job training	10	17	7	70	0.50	\$63.71
51-9083	Ophthalmic laboratory technicians	Moderate-term on-the-job training	78	105	27	35	1.43	\$20.64
51-9111	Packaging and filling machine operators and tenders	Short-term on-the-job training	1,717	1,717	0	0	2.54	\$10.55
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	Moderate-term on-the-job training	199	200	1	1	1.06	\$16.46
51-9122	Painters, transportation equipment	Long-term on-the-job training	68	67	(1)	-1	0.68	\$20.04
51-9123	Painting, coating, and decorating workers	Short-term on-the-job training	64	73	9	14	1.05	\$13.47
51-9131	Photographic process workers	Moderate-term on-the-job training	117	83	(34)	-29	2.16	\$10.96
51-9132	Photographic processing machine operators	Short-term on-the-job training	72	43	(29)	-40	0.70	\$9.44
51-9141	Semiconductor processors	Associate degree	20	13	(7)	-35	0.26	\$48.02
51-9191	Cementing and gluing machine operators and tenders	Moderate-term on-the-job training	23	23	0	0	0.55	\$14.50

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
51-9192	Cleaning, washing, and metal pickling equipment operators and tenders	Moderate-term on-the-job training	17	18	1	6	0.57	\$12.30
51-9193	Cooling and freezing equipment operators and tenders	Moderate-term on-the-job training	11	12	1	9	0.45	\$72.78
51-9194	Etchers and engravers	Long-term on-the-job training	13	13	0	0	0.51	\$18.98
51-9195	Molders, shapers, and casters, except metal and plastic	Moderate-term on-the-job training	33	37	4	12	0.39	\$33.86
51-9196	Paper goods machine setters, operators, and tenders	Moderate-term on-the-job training	162	158	(4)	-2	0.81	\$13.70
51-9197	Tire builders	Moderate-term on-the-job training	479	394	(85)	-18	11.89	\$18.61
51-9198	Helpers--Production workers	Short-term on-the-job training	1,653	1,761	108	7	1.74	\$9.34
51-9199	Production workers, all other	Moderate-term on-the-job training	1,039	1,133	94	9	2.02	\$10.99
53-1011	Aircraft cargo handling supervisors	Work experience in a related occupation	11	13	2	18	0.52	\$37.34
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	Work experience in a related occupation	334	369	35	10	1.04	\$20.99
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	Work experience in a related occupation	364	395	31	9	0.93	\$24.18
53-2011	Airline pilots, copilots, and flight engineers	Bachelor's degree	30	34	4	13	0.21	\$28.93
53-2012	Commercial pilots	Postsecondary vocational award	43	47	4	9	0.67	\$25.05
53-2021	Air traffic controllers	Long-term on-the-job training	23	26	3	13	0.59	\$39.26
53-2022	Airfield operations specialists	Long-term on-the-job training	5	5	--			
53-3011	Ambulance drivers and attendants, except emergency medical technicians	Moderate-term on-the-job training	23	28	5	22	0.66	\$12.47
53-3021	Bus drivers, transit and intercity	Moderate-term on-the-job training	323	446	123	38	0.89	\$9.05
53-3022	Bus drivers, school	Short-term on-the-job training	1,061	1,391	330	31	1.20	\$8.18

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
53-3031	Driver/sales workers	Short-term on-the-job training	1,504	1,479	(25)	-2	1.37	\$16.65
53-3032	Truck drivers, heavy and tractor-trailer	Moderate-term on-the-job training	4,581	4,810	229	5	1.38	\$20.63
53-3033	Truck drivers, light or delivery services	Short-term on-the-job training	2,862	3,215	353	12	1.39	\$15.47
53-3041	Taxi drivers and chauffeurs	Short-term on-the-job training	273	337	64	23	0.50	\$7.77
53-3099	Motor vehicle operators, all other	Short-term on-the-job training	23	25	2	9	0.18	\$21.92
53-4019	Locomotive engineers and operators	Moderate-term on-the-job training	33	42	9	27	0.50	\$25.50
53-4021	Railroad brake, signal, and switch operators	Moderate-term on-the-job training	14	15	1	7	0.40	\$22.86
53-4031	Railroad conductors and yardmasters	Moderate-term on-the-job training	21	29	8	38	0.41	\$26.38
53-4041	Subway and streetcar operators	Moderate-term on-the-job training	5	5	--			
53-4099	Rail transportation workers, all other	Moderate-term on-the-job training	5	5	--			
53-5011	Sailors and marine oilers	Short-term on-the-job training	5	5	--			
53-5021	Captains, mates, and pilots of water vessels	Work experience in a related occupation	5	5	--			
53-5022	Motorboat operators	Moderate-term on-the-job training	5	5	--			
53-5031	Ship engineers	Postsecondary vocational award	5	5	--			
53-6011	Bridge and lock tenders	Short-term on-the-job training	5	5	--			
53-6021	Parking lot attendants	Short-term on-the-job training	65	75	10	15	0.28	\$6.75
53-6031	Service station attendants	Short-term on-the-job training	44	51	7	16	0.27	\$12.80
53-6041	Traffic technicians	Short-term on-the-job training	5	5	--			



SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
53-6051	Transportation inspectors	Work experience in a related occupation	10	12	--			
53-6099	Transportation workers, all other	Short-term on-the-job training	24	27	3	13	0.34	\$10.94
53-7011	Conveyor operators and tenders	Short-term on-the-job training	90	83	(7)	-8	1.08	\$13.04
53-7021	Crane and tower operators	Long-term on-the-job training	52	60	8	15	0.64	\$16.56
53-7031	Dredge operators	Moderate-term on-the-job training	14	18	4	29	0.82	\$22.92
53-7032	Excavating and loading machine and dragline operators	Moderate-term on-the-job training	119	147	28	24	0.91	\$16.25
53-7033	Loading machine operators, underground mining	Moderate-term on-the-job training	14	17	3	21	0.77	\$23.56
53-7041	Hoist and winch operators	Moderate-term on-the-job training	5	5	--			
53-7051	Industrial truck and tractor operators	Short-term on-the-job training	1,620	1,539	(81)	-5	1.44	\$12.40
53-7061	Cleaners of vehicles and equipment	Short-term on-the-job training	745	840	95	13	1.18	\$7.71
53-7062	Laborers and freight, stock, and material movers, hand	Short-term on-the-job training	7,159	7,397	238	3	1.68	\$10.90
53-7063	Machine feeders and offbearers	Short-term on-the-job training	701	610	(91)	-13	2.65	\$12.19
53-7064	Packers and packagers, hand	Short-term on-the-job training	2,470	2,303	(167)	-7	1.66	\$8.92
53-7071	Gas compressor and gas pumping station operators	Moderate-term on-the-job training	5	13	--			
53-7072	Pump operators, except wellhead pumpers	Moderate-term on-the-job training	10	14	4	40	0.18	\$11.01
53-7073	Wellhead pumpers	Moderate-term on-the-job training	5	12	--			
53-7081	Refuse and recyclable material collectors	Short-term on-the-job training	242	166	(76)	-31	0.96	\$11.37
53-7111	Shuttle car operators	Short-term on-the-job training	0	0	--			

SOC Code	Description	Typical Education & Training Level	2006 Jobs	2016 Jobs	Change	% Change	2006 LQ	Median Hourly Earnings
53-7121	Tank car, truck, and ship loaders	Moderate-term on-the-job training	18	17	(1)	-6	0.68	\$17.46
53-7199	Material moving workers, all other	Moderate-term on-the-job training	26	27	1	4	0.30	\$13.98
			299,535	340,678	41,142	14		\$17.97

at least 1 greater than \$17.97

Source: EMSI

## Appendix B: Businesses by 3-Digit NAICS Codes

Industry	NAICS Code	Greenville County		Average Size	Change		SC	US
		1996	2006		Number	%	Change %	Change %
Professional and technical services	541	1,044	1,554	8	510	48.9	65.6	41.5
Food services and drinking places	722	639	916	20	277	43.3	37.3	18.1
Administrative and support services	561	515	756	34	241	46.8	62.9	30.1
Specialty trade contractors	238	783	991	8	208	26.6	46.3	26.2
Ambulatory health care services	621	467	673	11	206	44.1	37.3	18.2
Real estate	531	246	435	4	189	76.8	76.6	32.6
Credit intermediation and related activities	522	258	438	10	180	69.8	62.3	50.3
Construction of buildings	236	326	495	7	169	51.8	54.4	25.8
Personal and laundry services	812	196	317	9	121	61.7	33.4	7.9
Merchant wholesalers, durable goods	423	449	566	13	117	26.1	76.0	0.7
Educational services	611	65	130	28	65	100.0	94.6	51.9
Health and personal care stores	446	136	185	10	49	36.0	27.1	11.7
Social assistance	624	89	137	20	48	53.9	30.9	46.7
Private households	814	346	393	1	47	13.6	23.4	79.7
Truck transportation	484	121	168	27	47	38.8	54.0	14.0
Insurance carriers and related activities	524	267	309	10	42	15.7	27.4	9.4
Accommodation	721	45	86	22	41	91.1	29.9	13.9
General merchandise stores	452	53	90	56	37	69.8	44.7	25.7
Heavy and civil engineering construction	237	93	128	16	35	37.6	50.9	2.9
Gasoline stations	447	153	187	7	34	22.2	22.2	-4.7
Nursing and residential care facilities	623	34	61	48	27	79.4	41.6	30.2
Management of companies and enterprises	551	30	56	76	26	86.7	136.8	43.4
Motor vehicle and parts dealers	441	213	237	14	24	11.3	14.7	4.0
Miscellaneous store retailers	453	196	220	6	24	12.2	10.7	-5.1
Furniture and home furnishings stores	442	108	131	9	23	21.3	15.8	5.4
Telecommunications	517	33	56	56	23	69.7	51.3	35.8

Industry	Greenville County			Change		SC		US
	NAICS Code	1996	2006	Average Size	Number	%	Change %	Change %
Repair and maintenance	811	376	397	5	21	5.6	17.2	4.1
Food and beverage stores	445	147	163	35	16	10.9	-3.6	-2.5
Couriers and messengers	492	18	34	33	16	88.9	60.9	34.2
Sporting goods, hobby, book and music stores	451	99	114	10	15	15.2	10.1	-11.5
Building material and garden supply stores	444	139	153	19	14	10.1	3.7	-5.3
Publishing industries, except Internet	511	31	45	28	14	45.2	36.1	3.2
Merchant wholesalers, nondurable goods	424	162	175	14	13	8.0	38.1	1.1
Nonstore retailers	454	39	52	16	13	33.3	-3.6	12.7
Plastics and rubber products manufacturing	326	30	41	120	11	36.7	12.3	-8.7
Waste management and remediation services	562	20	31	10	11	55.0	49.8	13.5
Nonmetallic mineral product manufacturing	327	20	29	28	9	45.0	21.1	5.4
Amusements, gambling, and recreation	713	121	129	17	8	6.6	4.0	23.4
Warehousing and storage	493	31	39	16	8	25.8	13.7	16.0
Utilities	221	10	17	47	7	70.0	35.8	7.9
Support activities for transportation	488	61	67	33	6	9.8	32.6	14.5
Fabricated metal product manufacturing	332	100	105	23	5	5.0	19.4	-1.4
Air transportation	481	9	14	7	5	55.6	45.3	8.4
Furniture and related product manufacturing	337	49	53	19	4	8.2	11.8	-9.0
Electrical equipment and appliance mfg.	335	12	16	79	4	33.3	19.8	-5.3
Miscellaneous manufacturing	339	51	54	11	3	5.9	29.5	-2.4
Paper manufacturing	322	23	26	36	3	13.0	39.5	-8.0
Transit and ground passenger transportation	485	10	12	9	2	20.0	35.9	2.4
Hospitals	622	7	9	339	2	28.6	48.1	21.2

Industry	NAICS Code	Greenville County			Change		SC	US
		1996	2006	Average Size	Number	%	Change %	Change %
Crop production	111	4	6	13	2	50.0	-98.2	-12.3
Chemical manufacturing	325	55	56	74	1	1.8	10.8	3.8
Textile product mills	314	29	30	48	1	3.4	-2.6	-17.4
Motion picture and sound recording industries	512	17	18	11	1	5.9	51.3	-4.1
Electronics and appliance stores	443	109	109	11	-	0.0	16.8	-1.9
Broadcasting, except Internet	515	17	17	32	-	0.0	-14.6	-2.8
Food manufacturing	311	24	22	41	(2)	-8.3	-1.4	-10.7
Clothing and clothing accessories stores	448	211	208	26	(3)	-1.4	4.2	-6.6
Printing and related support activities	323	78	74	12	(4)	-5.1	-3.1	-23.0
Transportation equipment manufacturing	336	22	18	148	(4)	-18.2	31.1	-1.2
Computer and electronic product manufacturing	334	16	12	67	(4)	-25.0	16.5	-10.6
Wood product manufacturing	321	24	16	10	(8)	-33.3	-6.4	-9.2
Apparel manufacturing	315	23	10	37	(13)	-56.5	-59.2	-47.1
Machinery manufacturing	333	87	70	77	(17)	-19.5	-11.8	-14.1
Electronic markets and agents and brokers	425	218	196	6	(22)	-10.1	28.9	47.5
Textile mills	313	57	33	70	(24)	-42.1	-31.0	-36.8
Membership associations and organizations	813	145	85	10	(60)	-41.4	11.3	9.0

Growth rate exceeds both SC and US growth rates.

Source: Bureau of Labor Statistics

## Appendix C: Greenville County Employment by Industry Sector

Industry	NAICS code	Employment 1996	Employment 2006	1996-2006 #	Change %	Location Quotient	Competitive Effect	2006 Average Annual Wage	Projected Growth
Total		208,908	231,817	22,909	11.0			36,755	0.14

<b>6 star sectors</b>									
Industry	NAICS code	Employment 1996	Employment 2006	1996-2006 #	Change %	Location Quotient	Competitive Effect	2006 Average Annual Wage	Projected Growth
Electrical equipment and appliance manufacturing	335	475	1,271	796	167.6	1.62	923	47,076	A
Merchant wholesalers, durable goods	423	6,069	7,290	1,221	20.1	1.30	522	54,293	A
Support activities for transportation	488	1,372	2,193	821	59.8	2.12	443	51,421	A
Telecommunications	517	2,778	3,119	341	12.3	1.77	387	48,172	A

<b>5 star sectors</b>									
Industry	NAICS code	Employment 1996	Employment 2006	1996-2006 #	Change %	Location Quotient	Competitive Effect	2006 Average Annual Wage	Projected Growth
<i>Sectors with only LQ less than 1.25</i>									
Heavy and civil engineering construction	237	1,283	2,105	822	64.1	1.19	517	40,932	AA
Nonmetallic mineral product manufacturing	327	584	803	219	37.5	0.86	232	44,111	A
Professional and Technical Services	541	9,221	12,533	3,312	35.9	0.93	101	58,978	AA
Ambulatory health care services	621	4,644	7,467	2,823	60.8	0.78	1,325	51,625	AA
Hospitals	622	2,334	3,052	718	30.8	0.38	273	46,208	A
<i>Sectors with only below-average wages</i>									
Clothing and clothing accessories stores	448	2,322	5,467	3,145	135.4	2.07	2,735	17,129	A
Administrative and support services	561	18,357	25,582	7,225	39.4	1.77	1,246	22,235	AA

<b>4 star sectors</b>									
Industry	NAICS code	Employment 1996	Employment 2006	1996-2006 #	Change %	Location Quotient	Competitive Effect	2006 Average Annual Wage	Projected Growth
<i>Sectors with only LQ less than 1.25 and below-average wages</i>									
Furniture and home furnishings stores	442	933	1,222	289	31.0	1.15	65	27,667	A
Health and personal care stores	446	1,255	1,783	528	42.1	1.01	312	28,768	AA
Real estate	531	1,234	1,614	380	30.8	0.59	85	36,688	AA
Nursing and residential care facilities	623	1,566	2,908	1,342	85.7	0.55	1,027	23,322	AA
Social assistance	624	1,735	2,770	1,035	59.7	0.70	202	17,522	AA
Accommodation	721	1,364	1,884	520	38.1	0.57	410	18,337	A
Food services and drinking places	722	13,252	17,864	4,612	34.8	1.05	1,485	12,768	A
Building material and garden supply stores	444	2,222	2,944	722	32.5	1.22	26	29,869	A
<i>Sectors with LQ less than 1.25 and projected below-average growth or declines</i>									
Transportation equipment manufacturing	336	2,099	2,661	562	26.8	0.83	788	52,443	D
Motor vehicle and parts dealers	441	2,974	3,350	376	12.6	0.96	28	37,194	BA
Publishing industries, except Internet	511	1,073	1,279	206	19.2	0.78	227	57,503	BA
Credit intermediation and related activities	522	3,332	4,480	1,148	34.5	0.84	364	49,437	BA
<i>Sector with LQ less than 1.25 and competitive effect less than 0</i>									
Construction of buildings	236	2,952	3,282	330	11.2	1.01	(722)	52,430	A

<b>3 star or less sectors</b>		<b>Employment</b>		<b>1996-2006 Change</b>		<b>Location</b>	<b>Competitive</b>	<b>2006 Average</b>	<b>Projected</b>
<b>Industry</b>	<b>NAICS code</b>	<b>1996</b>	<b>2006</b>	<b>#</b>	<b>%</b>	<b>Quotient</b>	<b>Effect</b>	<b>Annual Wage</b>	<b>Growth</b>
Utilities	221	796	794	(2)	-0.3	0.80	112	72,699	A
Fabricated metal product manufacturing	332	2,458	2,425	(33)	-1.3	0.86	142	40,469	A
Food manufacturing	311	558	898	340	60.9	0.34	370	32,853	BA
Couriers and messengers	492	852	1,133	281	33.0	1.08	258	34,236	BA
Amusements, gambling, and recreation	713	1,647	2,213	566	34.4	0.88	206	14,557	BA
Personal and laundry services	812	1,991	2,851	860	43.2	1.22	665	20,444	BA
Machinery manufacturing	333	6,560	5,369	(1,191)	-18.2	2.50	70	60,293	BA
Air transportation	481	89	101	12	13.5	0.12	18	37,266	BA
Truck transportation	484	4,427	4,572	145	3.3	1.76	(376)	41,160	BA
Transit and ground passenger transportation	485	83	112	29	34.9	0.16	13	17,471	AA
Waste management and remediation services	562	276	311	35	12.7	0.49	(12)	36,985	A
Educational services	611	2,921	3,613	692	23.7	0.90	(623)	32,361	AA
Textile mills	313	6,824	2,315	(4,509)	-66.1	6.56	(686)	39,262	D
Chemical manufacturing	325	5,128	4,126	(1,002)	-19.5	2.63	(346)	49,892	D
Plastics and rubber products manufacturing	326	5,615	4,926	(689)	-12.3	3.41	(78)	45,826	D
Management of companies and enterprises	551	7,123	4,272	(2,851)	-40.0	1.31	(3,744)	66,235	BA
Specialty trade contractors	238	7,426	8,000	574	7.7	0.91	(2,775)	34,270	A
Printing and related support activities	323	1,069	860	(209)	-19.6	0.75	37	37,087	BA
General merchandise stores	452	4,412	4,998	586	13.3	0.93	(9)	18,727	BA
Motion picture and sound recording industries	512	200	203	3	1.5	0.30	6	15,217	A
Paper manufacturing	322	2,909	927	(1,982)	-68.1	1.09	(1,205)	57,305	D
Computer and electronic product manufacturing	334	1,968	801	(1,167)	-59.3	0.34	(665)	49,189	D
Merchant wholesalers, nondurable goods	424	2,658	2,401	(257)	-9.7	0.65	(555)	44,579	BA
Electronic markets and agents and brokers	425	1,459	1,255	(204)	-14.0	0.88	(479)	51,651	D
Electronics and appliance stores	443	1,397	1,215	(182)	-13.0	1.22	(368)	40,004	BA
Broadcasting, except Internet	515	561	542	(19)	-3.4	0.91	(67)	47,461	BA
Insurance carriers and related activities	524	3,319	3,150	(169)	-5.1	0.80	(503)	64,345	BA
Repair and maintenance	811	2,066	2,140	74	3.6	0.95	(43)	30,597	AA
Furniture and related product manufacturing	337	929	986	57	6.1	0.97	154	32,756	BA
Textile product mills	314	3,063	1,431	(1,632)	-53.3	4.89	(763)	27,307	D
Apparel manufacturing	315	1,616	372	(1,244)	-77.0	0.86	(139)	33,409	D
Wood product manufacturing	321	246	157	(89)	-36.2	0.16	(79)	28,078	D
Miscellaneous manufacturing	339	738	585	(153)	-20.7	0.50	(75)	33,658	BA
Food and beverage stores	445	7,521	5,673	(1,848)	-24.6	1.11	(1,637)	28,611	BA
Gasoline stations	447	1,797	1,368	(429)	-23.9	0.87	(307)	17,742	BA
Sporting goods, hobby, book and music stores	451	1,227	1,171	(56)	-4.6	0.98	(106)	18,291	BA
Miscellaneous store retailers	453	1,638	1,418	(220)	-13.4	0.88	(219)	26,377	BA
Nonstore retailers	454	1,019	850	(169)	-16.6	1.09	(112)	26,779	BA
Warehousing and storage	493	708	631	(77)	-10.9	0.55	(334)	29,729	BA
Membership associations and organizations	813	1,281	832	(449)	-35.1	0.35	(660)	28,065	BA
Private households	814	459	405	(54)	-11.8	0.42	(263)	16,575	BA

## Methodology and Sourcing

### Projected Growth Grading Scale:

AA=above average

A=average

BA=below average

D=decline

**Sectors are rated on 6 factors:** 1996-2006 employment growth, 1996-2006 employment growth rate, location quotient, competitive effect, average annual wage, and projected growth.

**Stars are based on:** 1996-2006 employment growth of 100 or more, 1996-2006 employment growth rate greater than 11% (change for total employment in Greenville County), location quotient of at least 1.25, competitive effect greater than 0, average annual wage greater than \$36,755 (2006 average for all jobs in Greenville County), and average or above average projected growth.

**Location Quotient:** percentage of employment in the sector in Greenville County divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in Greenville County; based on 2006 data.

**Competitive Effect:** based on shift-share analysis; represents the change in employment in the sector in Greenville County after accounting for overall US employment growth and growth/decline in the sector in the US.

**Source:** Bureau of Labor Statistics; projections based on data from EMSI and SC Department of Commerce.